

## APPENDIX B: AMINO ACID SEQUENCES

> RXA00009 (1-900, translated) 300 residues  
MAFGYVLREA VRGMGRNVTM TIALIITTSI SLALLATGFL VTNMTDRTKD IYLDREVEVMI  
QLDEDTSSAND PECTAESCTE VRDVLEGLDG IDSITYRSRE ASYERFVEVF KDTDPVLVAE  
TSPDALPAAF HVRLEDPLAV EILDPVRDLP QVSNVIDQVD DLRGATENLD SIRNATFLIA  
AVQVLASIFL IANMVQIAAF NRREETEIMR IVGASRFYTQ GPFVFEAILS TLIGAVFAVG  
ALFLGKELVI DKALRGLYDS QLIAPVTTTD IWLVAPIISG IGVVIAGIIA QLTLRFYVRK

> RXA00010 (1-687, translated) 229 residues  
VITFENVTKN YKTSTRPALD NVSLHIEKGE FVFLIGPSGS GKSTFLRLMT REENVSSGSL  
TLADFQVNKL RGTQVNKLRLQ RIGYVFQDFR LLKNKNVYDN VAFALVIGK KKDKIQELVP  
ETLEMVGLAG KANRMPNELS GGEQQRVAIA RAFVNRPLVL LADEPTGNLD PDTSEIMIL  
LNRINRLGTT VVMSTHNART VDDMRRRVIE LQLGKLVRDD AHGVYGEMR

> RXA00024 (1-945, translated) 315 residues  
MEHGVTVIKG TEFDVFPLNL GGNTFGWTSN REQTFVLDA FVAAGGNFVD TADSYSAWVE  
GNEGGESERE LGAWIKERGA DKLIIATKSG ALEPVAGRSR EATFKAVEGS LERLGVESID  
IFYHYHDEA VSIDEQVAIA NDLIAQGGIK HLALSNSAE RLAEFFEKSV GTPAQPVALQ  
PHYNLVSRLD YEENVQPLAE KHGVAVFPYF ALAAGLLTGK YTSKEDISGK ARAGQLDRYA  
SDEAFVAVTE LRAVADELGV APTTVALAWL VAHGVTAPIA SVSKVEQLKD LMAVKDVELS  
AEQLARLDKV SEPFA

> RXA00026 (1-1386, translated) 462 residues  
MSTDNFSPQV PSTVYLDYME QGIAARKAEA ESNASTKGES PDYPGQQVIW RLIQEAGESL  
RDELRTLAFT LHDHPEEAFE EVFATEEITK LLQNHGFVQ SGVYGVKTAL ETSFETPGYD  
PAQHPSIAIL AEYDALPEIG HACGHNIIAA AGVGAFLAVT NMIKTAEVKG VDHLDFEGRI  
VLLGTPAEEG HSGKEYMIRN GAFDGIDASI MMHPFGFDLA EHVWVGRRTM TATFHGVSAAH  
ASSQPFMGKN ALDAASLAYQ GFGVLRQOMP PSDRLHAIIT EGGNRPSIIP DTATMSLYVR  
SLLPEALKDI SKRVDDVLDG AALMAGVGVE KQWDVHPASL PVRNNHVLAR RWAKTQNLRG  
RTALSEGILP DTLAASTDFG NVSHLVPGIH PMVKISPENV ALHTKEFAAY ARTEEAIDAA  
VDAAIGLAQV AVDALADPQM LIDATLEFTN SGDVLKVG DY LA

> RXA00048 (1-1659, translated) 553 residues  
MNHDECDLD NVVQFTIQEG LDPMSPNFND TDVCIVGGGP TGTLLAVLLG QKGRVTTILE  
KWPTFYERPR AVTFDHEIAR ILGYIGIDSE NDEAIDYHSD SYDWKNAAGE TLLEVDWTSM  
TDSGWRTRYW FYQPELEKRL RDLALTMDFV DIRCGFTAVG LSQDENSAIL HGIVTDTPEN  
IPADAQREDI RAKYVIGADG ANSFVRNSLG LEMNDLGYFF DWLILDLPKT QDIDYGTDPH  
QLCDPKRPTT IVPGGPGRRR WEFMALPGED LKELASEESA WNLLPVDVT PGKAILERSA  
VYRFQARWAQ EWRSGRALIA GDAAHLMPPF AGEPMCAGLR DSLALAWRLD LVLSGKSDDA  
LLDTYGEERR EHVHYIDFS MDLGNVICIT DEDEARLRDE RMIKELEAQD GVPVNTDVAH  
LGPGIWDKDS SHGGELAKQG IVEYQGRKAR FDDAVGRGWA VLGLNTDPRE VLDEDSLVAL  
DAIGAIVESV GDATSAVLVDV EGLYTRWLKE AGATFIITRP DFYVYSTAVD AEQLQTQIKQ  
LSDLLHLNSV VGA

> RXA00070 (1-432, translated) 144 residues  
VGINRISQGS APKLGVRSTR QRKAVIDVLE EIDNFASAKE IHHELSTREH NVGLTTVYRT  
LQSLADIGAV DVLTVTGGET LYRQCHDEGH HHHLVCTNCG RTVEIDGGPV ETWAEIATK  
NGFALSSHEA EIFGLCADCK EKV

> RXA00072 (1-441, translated) 147 residues  
MSFQLVNALK NTGSVKDPEI SPEGPRTTTP LSPEVAKHNE ELVEKHAAAL YDASAEIILE  
WTAEHAPGAI AVTLAMENTV LAELAARHLP EADFLFLDTG YHFKETLEVA RQVDERYSQK  
LVTALPILKR TEQDSIYGLN LYRSNPA

> RXA00078 (1-414, translated) 138 residues  
MKADLTPYRQ FNGNAKEAME FYQTVFGGEL QMPPFSAMHS EEEVGGDGEK IMHAELVVDG  
QKLLFASDIP RVMQRMKGED TPLSLTGGAEE LEEEIRGYWE KLSEGGTVTM PLEAVPWGAV  
YGALEDKFGT HWMFNIGG

> RXA00088 (1-1014, translated) 338 residues  
 MVKNRFLKLV IATVAALALV GCSSTDSTSS ESSSAAESTA AASTLTIEDN HGTEGISLP  
 EGVAATDNRA FELLDRWGV LVAAPLQLVP FTVTGYTEEG GVANLGSHRE PDLEALAAAQ  
 PSLLIINGQRF AQYYDDIIAL NPDA TVVELD PRDGEPLDQE LIRQAETLGE IFGEEEDAAK  
 IVADFESALE RAKTAYAAIS DQTVMAVNV GGNIGYIAPS VGRTYGPIFD LVGLTPALEV  
 GNASSDHEGD DINVEAIAAA NPD LILVMDR DGGTSTRNEA DYVP AEQIVS DNEALANVKA  
 VTDGYVYYAP ADTYTNENII TYTEILNGMA DMFEKAAQ

> RXA00100 (1-600, translated) 200 residues  
 MILDWVISIM EALGAVGVGV AVFLENVFP IPSEVVLPLA GFTTTQGD LN VWAA LMWSVI  
 GSVSGAFLLY GLGRSIGAAR LRQVADWMWL VDATDVKSL SWFEKYGKYS VFFGRLVPGV  
 RSLISIPAGV DKMNPVLFV LTAVGSTIWN AVLIWTGVWL GAEWETVSMW FESYSTIIYV  
 GIALIXAYVL FGLVRRRIKT

> RXA00111 (1-993, translated) 331 residues  
 MAFFSFSTSP LTRLIPGSR KATGAKRRLS STIASIERSP GIIALDGPFT HDHVSVRGIR  
 LHLAEAGSPT KPLVLLIHGA FGGWYDYREV IGPLADAGFH VAAIDLRGYG MSDKPPTGYD  
 LRHAAGELSS VIAALGHDDA LLVGS DTGAS IAWA IASMP ERVRGLISLG AIHPLDMRRA  
 IRRKPHLHVS DLSRLAPFRL PSFLHNLHFH GITSEARREI VNNTSSSYQR SNAFTETVLL  
 RKKALSIDHT ITPIIRTNRY LVGSIPSKTV SAPVWLLRTN TRRWEHLANT ARTRTTGPFT  
 TIAIPGGYEL PYLENPSEFA ATIAEFARTT F

> RXA00112 (1-1191, translated) 397 residues  
 LSPSLVVDV IVLVMAFALW GGWRQGAFTS LLSTVGVS LGV GAAAAPF VMGLTDSTAL  
 RFLLAIGTVV LLVGLGNLIG AHLGAAIRDN IKFRSSRTLD SGLGAIFQVL ATLIVVWLVA  
 IPLATGLPGT VASGIRDSRI LGFVDKYTPQ GLDTLP SKIA AMLSESGLPP LISPFTGGSS  
 VEVDAP EINV TNVDLVEAMR PSVIHVMGDA QEC SRRLMGS GFVASPDYV TNAHV VAGTS  
 TVSLDTMIGT RSAEVVFYDP NLDIAVLYSP DLGLDPLPWA STPLDTGDEA IVMGFPQSGP  
 FNASPARVRE RIMITGSNIY ANGQHEREAY SVRGS IQSGN SGGPMTNEMG EVVG VVFGAA  
 IDGSDTGYVL TAEVQERIG DITALTQ PVD TMQCAVS

> RXA00133 (1-813, translated) 271 residues  
 MLFVRRLTSL KTATGIPVTM FATVLQDNRL QITQWVGLRT PALQNLVIEP GVGVGGRVVA  
 TRRPVGSDY TRANVISHEK DSAIQDEGLH SIVAVPVIH REIRGVLYVG VHSVRLGDT  
 VIEEVTMTAR TLEQNLAINS ALRRNGVPDG RGS LKANRVM NGAWEQVRS THSKLRMLAN  
 RVTD EDLRRD LEELCDQMT PVRIKQTTKL SARELDVLAC VALGHTNVEA AEEMGIGAET  
 VKSYLR SVMR KLGAHTRYEA VNAARRIGAL P

> RXA00135 (1-1254, translated) 418 residues  
 VKDKFLVTGG AQLQGA VKVY GAKNSVLKLM AAALLAEGTT TLTNCPEILD VPLMRDVLVG  
 LGCDVTIDGS TVTITTPAEL SSNADFP AVT QFRASVCVLG PLTARCGRAV VSLPGGDAIG  
 SRPLDMHQSG LEKLGATTRI SHGAVVAEAE KLVGANITLD FPSVGATENI LTASVMAEGR  
 TVLDNAAREP EIVDL CRMLR SMGANIEGEG SPPITIEGVE KLTPTQHEVI GDRIVAGTWA  
 YAAAMTRGDI TVGGIAPRYL HLPLEK LKIA GAKVETYENG FRVQMDKQPE ATDYQTL PFP  
 GFPTDLQ PMA IGINAVSNGT SVITENVFES RFRFVDEMLR LGADANVDGH HVVIRGIEQL  
 SSTS VWSSDI RAGAGLV LAA LCADGVTEVH DVFHIDRGYP NFVENLQKLG ATI ERVSS

> RXA00137 (1-1089, translated) 363 residues  
 MALADTRFAT RRRALA AKLA AQRIDSILVT SPIHVRYLSG FTGSNGALIV NKDLSAQICT  
 DGRYTTQIAE EVPDIEALIE RASATTL LAQ VEGPRRIAIE AAQTTLDQLD SLREATQEDV  
 ELIPVSGVVE SIRLT KDSFE LDRLRDVAAL ASQAFEDLLA AGELAEGRSE RQVAADLEYR  
 MRLGAERPS FDTIVASGPN SAKPHHGAGD RILQRGDLVT IDFGAHARGF NSDMTRTLVM  
 GEAGEFEAEI YDIVLRSQLA GVEAAYSGAN LFDIDAACRK IIEDAGYGEY FVHSTGHGIG  
 LEVHEAPSAS KTSQGVLETG STLTIEPGIY VPGKGGVRIE DTLIITSGAP EIITK VSKDL  
 IVV

> RXA00139 (1-711, translated) 237 residues  
 LIEQEQREQN VSERRQDYKR HGSRYKARMR AVDILFEAES RDVDPVAIID DRHKLARDTN  
 PIVAPVAEYT ETIINGVAVE LDTLDVFLAE HIAETWTLGR LPSVDRAILR VASWEMIYNA  
 DVPVTTAIVE AVEIASEYSG DKSSAYINAT LDAMASKVET LRERANPEA VLAEASESLD



RFPIQYVIRE HATDYRGYAG TINAGSVSVG DTVYLPEGRT TQVTHIDSAD GSLQTASVGE  
 AVVLRRLAQEI DLIRGELIAG EDRPESVRSE NATVVGLADR TIKPGAARKV RYGTSLVRGR  
 VAAIERVLDI DGVNDNEAPE TYGLNDIAHV RIDVAGELEV EDYAARGAIG SFLLDQSSG  
 DTLAAGLVGH RLRNNWSI

> RXA00277 (1-1584, translated) 528 residues

MKDNEDFDPD SPATEAVAFN PFDDDDDDDS PATSAVAFNP FEDDDDDDEF QGEGLEFLLR  
 DLDNLRATQG QMVVEQPAVE DSLGSASAHT ETAAASLRPR PEVDPSERSR RQAIISFRER  
 RRVRRQSRPV ADGMVELPFI TPKPEDELLI DPEKKRKPGV AAPQLVAGDI VAEQYEV LGV  
 IAHGGMGWII LANDRNVSGR IVVLKGMAQ SSVQDQGTAE AEREFLADIT HPGIVKAYNF  
 IDDPVPVGGF IVMEYVNGPS LKDRCKAQPD GVLVRDLAIG YILELLPAMD YLHQRGVVYN  
 DLKPENVIAT EDQVKLIDLG AVTGIGAFGY IYGTGKFQAP EVATHGPSIS SDIFTIGRTL  
 AALTMPLPVE DGV LAPGIPS PKNSPLLRRH LSFYRLLQRA TADDPQHRFR NVSELRTQLY  
 GVLREILAVR DGKQYPPQHS LFSPQRSTFG TKHLVFRTDR IIDGIERQAR ITAPEIVSAL  
 PVPLIDRTDP GARMLSGSSY AEPSETLETL RNSMEDEQYR QSIEIPLG

> RXA00299 (1-744, translated) 248 residues

MLPNHSPYVI AEQFGTLAEL YPDRIDLGMG RAPGTMNTL RALRRDPQSA ENFPDSVVVEL  
 NSYLTGRSRL PGVNAIPGKG TNVPLYILGS SLFGAQLAAQ LGMPYSFASH FAPTHLEHAV  
 QTYRDNYQPS EQHPEPYVIA AVNVTASDST EQAHDDFYKV ARARVKNMAL RGRQVTDEQL  
 DELMDSAPAR QIVDMLHYTA IGTGSEVKEY LDGFVKTAQA DELMISLQSP NTEATTRNME  
 ILADAWIN

> RXA00332 (1-702, translated) 234 residues

MAFNKAYDAL RAPQITLGLM TPNGPELGRS EMVPTENSIE LAIQAEAQGF RGMWVRDVPL  
 AVPQGITVTD KQATYLDPPF LMLGAMASVT STIALGTAAT VLPLRHPLHV AKSALTLDR  
 SHGRFVLGIG SGRDPEEFEI FGKSLDNRA DIQSGWAILR AALSPDPAMR ADLEFAPTP  
 PEAQIPMIAV GSARQTVQWI ARNADGWATY YRPAEAQVGR LDLWDKARGG TRPC

> RXA00354 (1-636, translated) 212 residues

GLIGANGGYV ESAQESVFHR RLSGEETRHI VEWLYNRGLE FYLESNNGLY ASRGFREASK  
 PVLSRLSEKT DVTVDSDMPD MFWGASLDRD DVNKISYIFN SQEDLDAARE AFPNLEHTTW  
 GGQTGALFGT IGVSVNKKIG VDRLLKYLNA DRANTIAFGD SDEDLSLFEA SAYGVAMGEA  
 TESLKAADL VTDVAVGQDGL RNAFLKLELI DA

> RXA00372 (1-1077, translated) 359 residues

MSSKHPLKRT AVTVFALGAS AALLVACSEP SEDVSTAETT TASSSANASD AAGEKVTITV  
 YTSEPEEKVD EINKAFMEAN PDIEVEVYRA GTGDLTARIE AEKASGSIEA DVLWAADAAT  
 FETYYAQGDL AELEDVETSD IIEEALDAEN FYVGTRIPT VIAYNTEVVD QALPTSWAD  
 LTDPKYAGQL VMPDPAVSGA AAFNASVWKN DPALGEAWIT ALGENQPMIA QSNQPTSQEI  
 AGGGHPVGIV VDYLVRDLAA AGSPIDTIYA SEGSPYITEP AGVFADSEKK EAAERYINFL  
 LSVEGQEIAV EQAYLPVRED VGTPEGTPEL ADIELMTPDL EVVTADKAAA VEFFQNAMN

> RXA00470 (1-1200, translated) 400 residues

MIEDMSNTPA PYTPQPAGQA VPLYPTFTRS RDGRVVAGVA SGLAKHLNVS VFWVRALLIF  
 AALLSGAGLF AYALIWIFTR IEKKGSGEAS TSKRWVSWCL VLLAIGGAAA SVMLSTGFAV  
 GTLVPIGVVG VGLLMVWLAY DRGVESGPNL LIATGGVLM LVAIVLIVMN WNTQDGFVMA  
 LVAVVLTIVG VAALGVPLWV RMWDQLGEER AEKAAAAERA DIASRLHDSV LQTLALIQKR  
 ADDPAEVARL ARGQERELRQ WLFDSQDKTP QTTGTVFTAL ERACGEVEDI YALRIVPVTV  
 GTDEALTEKT QAAVMVREA LVNVAKHAGV ETADVYAEIM LGELNIFVRD RGAGFDPDNI  
 PDGHHGLAES VQGRVERAGG KVKRIKSEIGE GTEVAITMDV

> RXA00471 (1-690, translated) 230 residues

MVDVFLVDDH SVFRSGVKAE LGNAVTVVGE AGTVADAVAG IKASKPEVVL LDVHMPDGGG  
 LAVLQQINDS DVDTIFLALS VSDAAEDVIA IIRGGARGYV TKSISGEELI EAINRVKSGD  
 AFFSPRLAGF VLDAFAAPDS AAGAGIVDAP EKDAAVESGK ILDDPVVDAL TRRELEVLR  
 LARGYTYKEI GKELFISVKT VETHASNILR KTQQSNRHAL TRWAHSRDL

> RXA00499 (1-957, translated) 319 residues

GNDILEKPTA EVVEYLSHLR ADGIVRDAEA LRKHLGVNQW NLLGQSFGGF TTLHYLSRHA  
 DSLDNVFIITG GLSAIDRPAA DVYANCYNRM RRNSEEFYRR FPQLRETFRG LVNRARAGEI

VLPTGEVVSE TRLRSLGHLL GSNDGWFDLY NLELDPTS N AFVHDLA GL L PFGNRNPIYY  
VLHESYADG VVTNWA AERV LPEDFREDPT LLTGEHV FQE WTDTPVSLKP WKDVALALAQ  
QEWPKLYDAK ALENSQAKGA AAVYANDVFV PVDYSLETAQ HLPQVQLFIT SQHEHNG LRA  
SSGAVLKHLF DLAHGREV R

> RXA00500 (1-675, translated) 225 residues  
VLVLALDTST PDLIVGVVDS DTGNTRAETI IEDTRAHNEQ LTPTVQKTLL DANLSFSDID  
AIVVGC GPGP FTGLRVGMVS GAAFGDALGI PVYGVCSLDA IAHNIGARNI PHALVATDAR  
RREIYWATYR SGERDQGP DV IAPANIQISG AVDTISIPEH LVEKLPEELQ NVTMHS GKPA  
PASLVAVADF SVEPQPLVPL YLRRPDAKEP KPKPKSAAIP EVDLS

> RXA00501 (1-507, translated) 169 residues  
MSEQFELREL RREDAGRCAD LEQILFPGDN PWPRDVF AVE FSHPTNFYIG AFDEGYLVAY  
AGLAMMGPAD DPEFEIHTIG VDPEFQRKGL GRV LMDQMMH AADSHDGPVF LEVRTDNVPA  
ISMYEAFGFK TLAVRKNYYR PSGADAYTMQ RPRLSDRKDQ QTDTEGTPS

> RXA00502 (1-1032, translated) 344 residues  
MIVLGISSC DETGVGVV KL DGE GNLEILA DSVASSMQEH ARFGGVVPEI ASRAHLESMV  
PVMREALRQA GVDRPDAVAA TVGPGLAGAL LVGASAAKAY AAAGVVPFYA VNHLGGHVAV  
ANLEGETLPH AVALLVSGGH TQLLEVD AVG LPMKELGSTL DDAAGEAYDK VSRLGLGYP  
GGPIIDKLAR RGNPEAIAFP RGLMKKSDSR HDFSFSG LKT SVARYVEAAE RNGEVISVED  
VCASFQEA VC DVLTFKAVRA CRDVGAKVLL LGGGVAANSR LRELAQERCD KADIELRVPR  
FNLCTDNGVM IAALAAQRIH EGAQESPISV GTDPSLSVET PQVF

> RXA00566 (1-606, translated) 202 residues  
MPTSRVLP S FIEQSAYGTK ETNPYAKLFE ERIIFLGTQV DDTSANDIMA QLLVLEGMDP  
DRDITLYINS PGGSFTALMA IYDTMQYVRP DVQTVCLGQA ASAAAVLLAA GAPGKRAVLP  
NSRVLIHQPA TQGTQGVSD LEIQAAEIER MRRLMETTLA EHTGKTAEQI RIDTDRDKIL  
TAEAELEYGI VDQVFDYRKL KR

> RXA00567 (1-591, translated) 197 residues  
MSDIRMAAQG GPGFGNDVFD RLMSERIIFL GSQVDDEIAN KLCAQILLLS AEDPTRDISL  
YINSPGGSVT AGMAIYDTMK YSPCDIATYG MGLAASMGQF LLSGGTKGKR FALPHARIMM  
HQPSAGVGGT AADIAIQAEQ FAATKREMAQ LIAEHTGQTF EQISKDS DRD RWFTAQEA KD  
YGLVDHVITL AEGPISN

> RXA00569 (1-1026, translated) 342 residues  
MRLKKQLLGS LLVVIVVLSI AVATTKQKQG FVTGQPTGAL NLS DILDSEE LGEYHLMSAA  
IITGNTVDFS GLGAGPDDPF EIASITKIFT GELLRLQIER GEITESTAVG DVLGERVADS  
LIRDITVEEL ANHTSGLPRL GNVGLRPFMA TFFDKNPYKD LSADRVISIS TTSKLN SRGE  
FHYSNLGFAL LGQVLARNAG LTFDQLLDRD LLAPLNLNNT KLMTPE SLAQ DAPQGFSTPG  
KQVEAWEMDG FLPAAGLRST ARDMAVFCQY LFTKGPAPFT WQSLES APEI VWHNGESFGY  
SSVLFNTAT TTAIFVAADV ATSVFPIGHE LLMANSTRQE SK

> RXA00594 (1-933, translated) 311 residues  
VSTNSLT KL VASTVAAGVL GALALVPFAS LSGVAVARTN DTMQTNLS DL TDGRGPGVTT  
ITDSTDQPIA YIIAQRREFE V GGDQISTSMK DAIVSIEDRR FYEHDGV DLQ GFGRAILTNL  
AAGGVEQGAS TINQQYVKNF LLLVEADDEA EQAAAVETSI PRKLREMKMA SDLEKTL SKD  
EILTRYLNIV PFGNGAYGVE AAARTYFGTS AAELTIPQSA MLAGIVQSSS YLNPYTNHDA  
VFERRNTVLG AMADAGAI SP DEASAFQQEP LGVLETPQGL SNGCIGAGDR GFFCDYALQY  
LSEQGITQDM L

> RXA00612 (1-1185, translated) 395 residues  
AAAAIQQGAG LDTMLDVPSR YEVKGMGSGG AANCPANTYC VENAGSYAPR MTLQDALAQ S  
PNTAFVEMIE QVGVDTVVDL SVKLGLRSYT DEGSFDGESS IADYMKDNNL GSYTLGPTAV  
NPLELSNVAA TIASGGMWCE PNPIASVHDR EGNEVYIDRP ACERAIDAET ASALAVGMSK  
DTVSGTAASA ASMYGWSLPT AAKTGTTESN QSSAFMGFNS NFAAAPYIYN DGTSTTPLCS  
GPVRQCSSGN LFGGNEPAQT WFNMASNVPA ASQGTLPSSS DSFRLGTSGE LLNQVVGQSE  
ASARRTLEAK GYKVTTRS VS GAGSARGTVV SATPQGA VLI DGGTVILDIS DGTSPAPAAT  
NNDDSDGDT PAPSTNNRGT TIEDAINDAI NQFFR

> RXA00615 (1-582, translated) 194 residues  
MTASVFYPVL SVVVLIDCIL PLIPSETVLA LAGAWSGARG TPNLWLVISV ATLAIIIGDN  
LCYFFGTRLI NMVNRIPGES RRGKALEWAR KNLNERDVST IIIARFIPWA RWFVTIILGS  
VGYSWSRFIV WDSIGALIWA TQATLLGYVG GWLFQEQPLI GLVAGAALGI FFGFFLQWLN  
KMWERRRLAK VAAE

> RXA00621 (1-783, translated) 261 residues  
MSERLNAPQA PIHPITRTHH GIDFVDNYEW LRDKESQETL DYLEAENAFT KQETEQLATL  
RDNIYEEIKS RVKETDMSIP VRAGKHYYYS RTEEGKSYGY SCRIPVTEGS DAWTPPVIPE  
GEPAQGETII MDANELAEGH EFFSMGASSV TTSGRYLAYS TDVTGEERFT LRIKDLETGE  
LLPDTLTGIF YGATWVGEEY LFYQVRVDDAW RPDTVWRHKV GTPVEEDVLV YHEPDERYST  
WVGTRRSEKV HPFWRLQDH L

> RXA00622 (1-1416, translated) 472 residues  
MNVIPPGWAP LVQKKFILFG CASKITSEVR VLPFDQPEGT PEVLIPRAEG VEYDVDHAVV  
DGSDIWLVTN NAEGPNFSVG WAGVDKLNLS DALAPLVAHK DDVRIEVDVT YRDFIILGYR  
SGAIGQVAIM KLIDGTFGDF QQLEFDEEII TVASGGNPEW DAPVIRLSYG SFTTPAQLFN  
YWIESGERTL LKQQEVLGGY KPSDYVASRL WVTAKDGAQI PVSLVHRTDL DVSKPNPTLL  
YGYGSYESSI DPGFSIARLS LMDRGMIFAI AHVRGGGEMG RGWYDNGKTT TKKNTFTDFI  
DVADALIEQK ISAPEMLVAE GGSAGGMLMG AIANMAGDRF KAIEANVPFV DPLTSMMLPE  
LPLTVIEWDE WGDPLHDKDV YEYMASYAPY ENIEAKNYPN ILAVTSLNDT RVLVVEPAKW  
VAQLRATATG GEFLKTEMV AGHGGVSGRY EKWRETAHEY GWLINQATGV TE

> RXA00636 (1-1029, translated) 343 residues  
MMIDTPAVLI DRERLTANIS RMAAHAGAHE IALRPHVKTH KIIEIAQMQV DAGARGITCA  
TIGEAEIFAG AGFTDIFIAY PLYLTDHAVQ RLNAIPGEIS IGVDSEVMAQ ATAGLREDIK  
ALIEVDSGHR RSGVTATASE LSQIREALGS RYAGVFTFPG HSYGPGNGEQ AADELQALN  
NSVQRLAGGL TSGGSSPSAQ FTDAIDEMRP GYVVFNDSSQ ITSGACTEKQ VAMTVLSTVV  
SRNVSDRRII LDAGSKILST DKPAWIDGNG FVLGNPEARI SALSEHHATI FWPDKVLLPV  
IGEQLNIVPN HACNVINLVD EVYVREADGT FRTWKVVARV RNN

> RXA00639 (1-660, translated) 220 residues  
MTSAEQIVDP TAHDSGNKAT DKFKANRVSS DTSKERANAI YVDLLAAIAQ VAHKHEVITYE  
EYAVLKQWMI DVGEYGEWPL WLDVFVEHEI EEINYNRHDY TGTKGSIEGP YYVENSPLKP  
WDAEMPMDRK DRACPLIFE GQVTDLDGNG LDGAEEVELWH ADEGYYSQF APGIPEWNLK  
GTIVTDEEGR YKIKTLQAP YQIPHGDGPTG WFIESYGGHP

> RXA00640 (1-249, translated) 83 residues  
MSTPVSNLAS VQKTLDALE DRPEEGIVRV NRNIFTDPEI FELEMRHIFE GIWMDMAHES  
QIPNGGDYFT TYIGCQRIMI TRS

> RXA00641 (1-1041, translated) 347 residues  
VRRVPKLESY RGFLFGSLND DVVSLEEHLG DTRTVIDMLV DQSPEGLEVL RGSSTYTYDG  
NWKLQTENGA DGYHVSSTHW NYAATTSRRG TGESANETKA MDAGTWGKQG GGYFSYPYGH  
MLLWMMWGNP EDRPLFERRD EFKKEFGEEK GEFMVGASRN LCLYPNVYLM DQFSSQIRHI  
RPISVDQTEV TIYCIAPKGE SAEARANRIR QYEDFFNATG MATPDDLEEF RSCQKTYQAS  
AFPWNDMTRG LGHQVQGPNE VAKGLGMNEV LSSGARTED GLYPHQHGFV HELMQEAVNK  
QSIKEKELAD DTASSLATVA AAKIREEAKA AAKSDAGEPR RRRRTRG

> RXA00642 (1-492, translated) 164 residues  
MSEITRSEIE AFLYYEARLL DDRKFEEWLE CYREDAEFWM PAWDDNGELT EDPQSEISLI  
YYPNRGGLED RVFRIRTERS SATSLPEPRT GHSTTNVEIL ERRDGEVDIR FNWITFYRY  
NTTDTYFGTT FITLDVSGET PKIVKKKVVL KNDYIHHDV IYHV

> RXA00643 (1-1536, translated) 512 residues  
MTHQVALAFE DGITRFIDCE DDQTVADAAQ QARINIPFDC RDGACGTCKA FCESGDFDEG  
DYIDDALSED EAADGYCLPC QMTPKTDLIL QIATTSVLAK TGASTFDGEL KEINHFSST  
IGIEIELENR QDLAFLPGQY MNIQVPGSDQ TRSYSFSCAQ DSGNVQFLIK VTPGGLMTTY  
LTDHAKVGDK LTLTGPMGSF FLREPVRPIL LLAGGTGLAP ILAILEKLSR DELLDVPIRL  
VYGANFTHDL VELDRDAFK DKFDFDYITV LSDKDEHPR KGYVPAHLTG EYEPDEDTDV  
YLCGPPPMVE AVRQFLGTLE HPPLDFYIEK FTSAAAPAG KPEITVETSE VAEDFNLVEV

STPGMSSGEV HSSATQLQAR MALELGALEL AINKLGERDI ERFRLADIA NSFIDGDKFI  
DAVKTEANA DFHEFLFRR NNEALLAAYQ NLQVVQEMNA TLPGAEWIDP AIATEHLALV  
DAVSQNDLET ARTIIREHAE HGIDTMVKAL EK

> RXA00644 (1-828, translated) 276 residues  
MSAPVGQIE GRPTHVTPER FFGQGVVVTG AAQGIGMAVA HRIAYEDGNL VLVDERSPLVH  
EVAEELRKAG AGTVDSFIAD LETFEGATDA LEFAGQKLKN LDVVINNVGG TIWAKPYQEQY  
SEEEIRKEIN RSLFPTLWMC RAALPILIGN GGGTIVNVSS IATGGINRVP YAAAKGGVNG  
IVSAMAREAA PHNVRVATA PGGTAPERA VKRGPGEPE LEEKWYQQIV DQTIDSSLMK  
RYGTLEEQVA PICFLASEEA SYITGSVMPV GGDQG

> RXA00650 (1-636, translated) 212 residues  
MIRVLLADDH EIVRLGLRAV LESAEIDIEVV GEVSTAEGAV QAAQEGGIDV ILMDLRFGPG  
VQGTQVSTGA DATAAIKRNI DNPPKVLVVT NYDTDTDILG AIEAGALGYL LKDAPPSSELL  
AAVRSAAEGD STLSPMVANR LMTRVRTPKT SLTPRELEV LKLVAGGSSNR DIGRILFLSE  
ATVKSHLVHI YDKLGVRST SAVAAAREQG LL

> RXA00658 (1-318, translated) 106 residues  
VRHDEHYPA ANLIAFDKGW STLIAPQLED PEAEFTAGF LLEYQDNLIT AGMEHQALAS  
GFPVGRRFKS DIALRRCDV TTHIGHEHSA DGHWRIVFA GQATPQ

> RXA00659 (1-621, translated) 207 residues  
VEASDGGTFD VENPATGETI ATLASATSED ALAALDAACA VQAEWARMPA RERSNILLRG  
FELVAERAE FATLMTLEMG KPLAEARGEV TYGNEFLRWF SEEAVRLYGR YGTTPEGNLR  
MLTALKPVGP CLLITPWNFP LAMATRKVAP AIAAGCVMVL KPARLTPLTS QYFAQTMLDA  
GLPAGVLNVV SGASASAIN PIMEDDR

> RXA00663 (1-996, translated) 332 residues  
LGDNDTRILA VAKNLQEEGH NVVLVSKDLP MRIKASASGI AAQEYRAALA RDRGYTGMTH  
ANITDDQLSE LYDTGEVRI ELEKLPVNHG FTLKSNSGSA LGRMNSDKII ELVPGDQQVF  
GISGRSAEQR VAIDLNDDA VGIVSIGGPA GTGKSALALC AGLEAVMERR IQRKIIVFRF  
LFAVGGQELG YLPGDQEEKM GPWAQAVFDT LSSMVSQNI DEALSRLIE VLPLTHIRGR  
SLHDAFVIVD EAQSLERNVL LTMLSRIGQN SRVVLTHDVA QRDNLRVGRY DGIVSVVEAL  
KDHELFGHIT LQRSERSRIA ELVTQVLDAP SL

> RXA00675 (1-483, translated) 161 residues  
CGATFDGWVG DSAWSFGIGE LDEDVQGLNL ATEWVLMEGM KAMVPGNRLT DVSHALEVAT  
RKAESKFGVA LGIVDGYGGH GIGRHMHEEP YLANEGKAGK GPVIQEGSVL AIEPMLTLGT  
EDSAVLEDDW TVVTLGDSWA SHWEHTVAAT KGGPRILTPR Y

> RXA00689 (1-627, translated) 209 residues  
MRNTGQTCYI STRIIPSSR YAEVVQTVAS TIAAGRQGD YDEETVFGPV ASASQYSTVM  
SYIDSAREEG ARVVAGGTRS ISLSEGLESG EFIQPTVFAD VTPDMRISRE EIFGPVISIL  
KYDDTNGVSE AIALANNTKF GLGGLVFGAD EEQALEVARQ VDSGSGVGINF FGSNHSAPFG  
GRHESGMGVE YGIEGLSAYL TYKSIHRTI

> RXA00715 (1-795, translated) 265 residues  
VVTVDWLSHN LDRDDVIVLC ATMEDDEIAR QAGIPGAFLA DLEGDFSDPH SELPHTAPPN  
LVGLLESYGI STDSTVVVYD LHGLMVAPRV WWLLRVAGLS SIGVLDGGLP AWVDAGLPTE  
PLSLPTSGGR ISAEPQPDLL VGASGVERAI ARSSKAVIDA RNASRFAGVE EEPRPGLRKG  
SIPGSVNIPF TDISDEHGFV RPAEELKELI FSRTNGAQL VFSCGSGVTA CVDAYAAVIA  
GYDDVVVYEG SWAEWGNPAN QKPIA

> RXA00744 (1-942, translated) 314 residues  
MGNWAEITDE ISKIYQDNQY KIRQINDVDA VSDKRREALQ ALFEHTGRNV IVYYSAWLEN  
GRRFSGQSTD FSVNDTDKNS FMTALHKLDQ SKGLDLILHT PGGDVAATES LVDYIHALFG  
QDFRVIVPQL AMSAGTMIAL SSKEIVMGKH SSLGPIDPQF NGLPAHGLLE EFEQAKKEVS  
ENPQTAHIWQ VILNKYNPTM LGEAKKAIQW SNSMVQWLE KGMFLDEPK EEKATRAIKE  
LADHSVTLAH NRHISVSKAL ELGLNIKELE SDPKLQDLVL TLHHLVIAA QRGPLIKFVV  
NHDNRGTFLQ GHEN

> RXA00756 (1-996, translated) 332 residues  
 VNIDVQALKA IESEKGIPVP DLLRTIASAL LHSYMDNRET VASANLKPRV DIDSTTGTVN  
 VIVSEFDENG ELASEYDDTP SNFGRVSARA VRDAIVKSLR EAEASRAFDA YADYEGTVVS  
 GIVQADARAA ERGIIIVQLG TEADNQDGV LPAEQIPGEK LKHGDRVKCF VVGVGKGNTD  
 IQINLSRTHP ELVRRLEFELE IPEVADGSVE IVAISREAGH RSKVAVQAKV KNLNAKGACI  
 GPRGQRVSN I MRELGGEEKID IIDYSEDPAT FVGNALAPSK VVNVEVTDLE AQTARVTVPD  
 YQLSLAIGKE GQNARLAARL TGWKIDIHSD ID

> RXA00772 (1-1506, translated) 502 residues  
 MSDRIASEKL RSKLMSADEA AQFVNHGDKV GFSGFTGAGY PKALPTAIAN RAKEAHGAGN  
 DYAILDFTGA STAPDCDGV L AEADAIRWRM PYASDPIMRN KINSGSMGYS DIHLSHSGQQ  
 VEEGFFGQLN VAVIEITRIT EEGYIIPSSS VGNNVEWLNA AEKVILEVNS WQSEDLEGMH  
 DIWSVPALPN RIAVPINKPG DRIGKTYIEF DTDKVVAVVE TNTADRNPFF KPVDDISKKI  
 AGNFLDFLES EVAAGRLSYA GYIMQSGVGN VPNAV MAGLL ESKFENIQAY TEVIQDGMVD  
 LIDAGKMTVA SATSFSLSP E YAEKMNNEAK RYRESIILRP QQISNHPEVI RRVGLIATNG  
 LIEADIYGNV NSTNVSGSRV MNGIGGSGDF TRNGYISSFI TPSEAKGGAI SAIVPFASHI  
 DHTHDVMMV ISEYGYADLR GLAPRERVAK MIGLAHPDYR PLLEEYARA TSGDNKYMQT  
 PHDLATAFDF HINLAKNGSM KA

> RXA00773 (1-1143, translated) 381 residues  
 VTLKIGPFDL ASPVVLAPMA GVTNVAFTL CREQEMQRTG TISGLYVCEM VTARALVERN  
 EKTMMHTTFA PDENPRSLQ YTVDPKYTYE AAKMIVDENL ADHIDMNFGE PVPKVTRRG  
 GSAIPYKRRL FENIVSAVK ATEGTDIPVT VKFRVGIDDE HHTHLDAGRI AVDAGAKSVA  
 LHARTAAQRY SGEADWNEIA RLKEHLADTG IPVLGNGDIF AASDATRMME QTGCDGVVVG  
 RGCLGRPWLF AELSAVRGE EIPEEPTFGE VTQIILRHAE LLMQHDGETK GLRDLRKHM  
 WYLRGFPVGG EFRSNLAKVS TYVELEDLLA PWADSTAKAE DAEGARGRQG APAKVALPDG  
 WLDDPEDATV PKGAEMENSG G

> RXA00778 (1-834, translated) 278 residues  
 RNNFAAAQVA FGGSDSAMKD DQAAEAARC NGNEAWHLPF VIGPVAVAYN LPGVDTLNLD  
 TNIIAQIFKG EITKWNDEAI ASQNEGTDL P DQDISVLYRS EESGTSDFNQ KFLGASTDIW  
 ETGQQFPTE VGSGAQGSNG VASEASNIEG AITYVEAGFA NQSGLG VANI DFGSGPVELN  
 AESVGVALGA LDFLTEGHNM VVDTDAMFAM NEAGAYPLIL TTYEIVCSAG YDETRDQVK  
 DFLTVALDSQ DDQLEALGYI PVTGEHYDRL VAAVEAIQ

> RXA00787 (1-594, translated) 198 residues  
 VSQPLSKRLS IRKALASAFI VALAFSLSPV AKAQANETPT MIVLDNSGSM TAQDAGGQTR  
 IDAAKQASTQ LINDISDRTD VGLTYGGNT GETEADVEMG CQDVTILGGP SRGNADTLID  
 TINSLQPRGF TPIGKALTD T AAELPEGNI VLVSDGIANC TPPDVCEVAQ ELAQSGINLV  
 INTIGLNVDP AAREELEC

> RXA00791 (1-828, translated) 276 residues  
 LFLTDL PQES RFWKIPVEPG ETISVSANTV TDPTVLTMGQ GGIKLEAQLH TEEAPQYGLR  
 GRCTRVSFDN FKPG LGVRGI QNASVASKEV GTNNCDTDAI YLEISRSGDY LNGQDIPTEI  
 TIERFGKVDE STIGNVTEEH SSVDLTEAAA SEAHVPVTPGQ WFTSAADLDP AGEKVSSIIV  
 PGETHFYALP VDYGQELRAA VETTFDQIDS SALGTHLYIQ AFSPNRAEIE LTNRDTSYAD  
 DNGLKTFGFF TPVSAANLFE KSSQGISLRS PWQGGT

> RXA00793 (1-1176, translated) 392 residues  
 MSENPTTLH WFLPTYGDSR GITAGGHGFG FHSGSRTADL DYLSQIALAA ERNGFESVLT  
 PTGLWCEDAW ITTAALLSRT SKLKFLVAIR PGQVSPTIIA QQGA AFQKFS NNRL LINVVV  
 GGEDHEQRAF ADYSSKEERY HKADETLEII DHLWNSAEPL NFQGEFLSVE NAVLKEQPEV  
 SPPIYFGGSS QLGIEIAAQH SDVYLTWGEP AEKVEEKLAR VRAEADKRRN ELDYGIRLHV  
 IARPTEDAW SVAQNLLDQL DQEEVARIQE GLARSQSEGQ RRMTELHGQG AAF TAGADAR  
 SLEIAPNLWA GVGLVRGGAG TALVGSYEQV AQAILRYRDI GLSHFIFSGY PHLEETYHVG  
 EGVVPELLKL GVPVNNHEEQ RNDVVATPFI SR

> RXA00797 (1-360, translated) 120 residues  
 MATAENTTQE NRKILFNAFD MNCVAHQSPG LWTHPKDKAR DYNLT DYWVH LAKTLEKGLF  
 DGLFIADVLG TYDVYSSNE AALSSGAQVP VNDPILLVSA MAYATKNLGF GITAGTAYEH



> RXA00820 (1-363, translated) 121 residues  
VNTFADATDD QQWIHTDPER AKDGPFGGAI AHGFLTLSMI IPFWGELLDV TGVTTKVNYYG  
LDKVRFTSPV KVGSRIRMGA VVREISEVKG NGLHLVADGT IEIEGQERPA VVATFLTRFY  
A

> RXA00833 (1-369, translated) 123 residues  
MAKTHFQUNE TATSGELPQV GDNLAEFNLV NTELGEVSSK DFQGRKLVLN IFPSVDTGVC  
ATSVRKFNFA AASLENTTVL CISKDLFPAL GRFCSAEGIE NVTPVSAFRS TFGEDNGIVL  
EGS

> RXA00844 (1-834, translated) 278 residues  
MSSASFTTKA LSVLAALTA SAPLVAASPA HALANARNVT GSSTTSDSIV RLHIGNTACT  
GTMITPTWAI TARHCIPEGG IAGAAIGSST LSQFQQVSQA ILHPTADLAL VELPNQASSN  
TVDLYGAVHQ PGENGQAAGW GGYSAGQNV AQQADVQIQ RNVNVPSPDR TAVLLEGTVS  
NGRLVPGDSG GPLYINGQLA GVLSMSTDVE NDALDGTVGW YIPVAEHAEW IAYYTGHKHA  
PIAGAPAEV DATANPTFIP APQPFTHSSI GGWALGSS

> RXA00857 (1-1290, translated) 430 residues  
AVGIEVPNSD REMVRLGDVL NARATVENKD SMLIGLGKDI EGDFVSYSVQ KMPHLLVAGS  
TGSGKSAFVN SLLVSLTRA KPEEVRLLV DPKMVETPY EGIPHLITPI ITQPKKAAAA  
LQWLVEEMEQ RYMDMKQTRV RHIKDFNRKI KSGEIEPTPG SKREYRAYPY IVCVDELAD  
LMMTAPKEIE ESIVRITQKA RAAGIHLVLA TQRPSTVDT GLIKTNVPSR LAFATSSSLTD  
SRVLDQGGG EKLIGMGDAL FIPQGAGKPQ RIQAGAVTDE EIQAQVDMK AQRPPEYTDG  
VTEDKASEAK KIDADIGNDL EDLLEAVELV VTSQMGSTSM LQRKLRIQFA KAGRLMDLME  
TRGVVGPSEG SKAREVLVKP EELETILWML KGADPADAPK EETWDDEVAE EAEAAANTTV  
VQADPSKGV

> RXA00860 (1-894, translated) 298 residues  
MTARRAADTS EERTGSAFRA VGSGIGTLFG ATASGLGKMT RSIGELGRRR NEDVLDDFDD  
FEEIATKPA TRKSRKAVE PEPEFDEDF EQSGNRTSAY VEEHADGIAL SLVGIAIVLG  
AAVWLGIGGP IGTFIADIVH LAIGAGAWIL PVGLIGWAVA LMLRYTPERQ AQGRVMLGIG  
VIIVCMLALI HLFAGNPAEW EGRKTAGGAI GAWIGTPEL GFSVFLAVPI LLLLLFWGAL  
KTTGISIREF IEFAGGFFGF AGFNREDEF DEEDDDLYGH VERELESRAS GRAPSRTP

> RXA00866 (1-945, translated) 315 residues  
MNDSRNRGRK VTRKAGPPEA QGENHLDTPV FQAPDASSNQ SAVKAETAGN DNRDAAQGAQ  
GSQDSQGSQN AQGSQNRSE NNNRNRNNN RRGGRGRRGS GNANEGANN SGNQNRQGGN  
RGNRGGGRRN VVKSMQADL TQRLPEPPKA PANGLRIYAL GGISEIGRNM TVFEYNNRLL  
IVDCGVLFPS SGEPGVLDLIL PDFGPIDHL HRVDALVTH GHEDHIGAIP WLLKLNDIP  
ILASRFTLAL IAAKCKEHRQ RPKLIEVNEQ SNEDRGPFNI RFWAVNHSIP DCLGLAIKTP  
AGLVIHTGDI KLDQT

> RXA00877 (1-1065, translated) 355 residues  
AAAVGTEGYV VPLELPTVQS EQAVLTESAS RAKLYEASQK RGASLNKDVL LETVRLRAER  
ATLLGYDTHA DYVIEEETAD DVAAVRALLY DLAPAASANA KAEYKLSAE AEEHGQKVGA  
ADWSFWEAKV RARDYALDET ELRNYFPLNQ VLRDGVFFAA NRLYGITVEP RPDLRGYAEG  
VDVWEVLDS GSGIGLILTD YYGRPSKRGG AWMSFVDQS ELLGTPVNV NVMGITKPTT  
GEALLSLDEV TTIFHEFGHG LHGLLSKVRY PSFSGTSVPR DYVEFPSQIN ENWAFDPAVV  
RNYARHVDTG DIIPDSLLEA VEACGISDRV VEHVSTCPHL LSTCPVSPCP QRMHP

> RXA00888 (1-1017, translated) 339 residues  
VTAPRKTRTE VITTVLNLER TLAQTVLGIN DENLRVLNQG IDCDIHVRGT HVELTGPAHE  
VSRASKIFEE LQAIARRGHV ISPETVKNVI SMINVETPQT VSEILTDGIL ARRGKVIRPK  
TLGQKHVYDA IDTNTIVFGL GPAGSGKTYL AMAKAVQALQ SKQVSRIILT RPAVEAGEKL  
GFLPGTLNEK IDPYLRPLHD ALRDMVEPEV IPKLMEAGIV EVAPLAYMRG RTLNDAFVIL  
DEAQNTTPAQ MKMFLTRLGF GSKMVVTGDI TQVDLPGGQK SGLRLVRHIL RGVDVHFSE  
LTSSDVVRHQ LVGHIVDAYE DYEEREAREL KRKRQETRP

> RXA00892 (1-894, translated) 298 residues  
MSATSSVTVE CPAGTITGEP HYFRSIPYAK ARPFADAEL EPLRIDATGK HEGLYLTAT  
PEARFGADAP VIVYIHGGGY DGGTRFDART EPTFFREQGF VVVSIDYRVG LEGFARFHDD

EANRYRGIDD CVLALEWVQK NIEHFGGDPT NVTLIGQSAG AGIALWLTRL DHYKGAFRRL  
VALSPSFPRQ PFAARKGALR RALGKPVTRA SLAGIKPARL DKGYRRFARR YFTDLALGPT  
PYDPNELADI DLIISSTRDE MYGHRAGLWF DQRGFGAKLA ARLFGLNSD TNIKEAPR

> RXA00905 (1-693, translated) 231 residues  
DPNLLLEDYAG AKEWVKETLT NAGLTVSEFA AEDGTTNFIG TRKGSEGAPK VLLYSHFDVV  
PSGPLDLWDT NPFELTERDA GHGTRWYGRG AADCKGNLVM HLAALRAVEA SGDTTLNLTY  
VVEGSEEMGG GALSALIKDK PELFDADVIL IADSGNASVG TPTLTTLTLRG GGQVTVTVDT  
LEGAVHSGQN GGAAPDAVAA LVRVLDLTRL EHGRTVIDGC QHHRKLEGRA L

> RXA00903 (1-633, translated) 211 residues  
MGNPLAVIAD ADDLSAEQMA RIARWTNLSE TTFLKPTQE GADYRVRIFT PTGELPFAGH  
PTLGTAVHFR ELHGEQGTQL VQECVAGLVA VRAIDGPASG LAFQAPPTLK DGPLDASDLD  
AACEALGISP DFIRAHQWVD NGPGWAVVEL PSAQHVLDEL PDFSAHPTLK LGVIGAYPEG  
APHAFEVRAF AQGIGEDPVT GSLNAFIAQW L

> RXA00906 (1-504, translated) 168 residues  
MNTDAPLSTA VNTTANWKGE PYDPETFRSD AGILDGVDIM GDGDNPASML WSRPAISITG  
FTSTPVAEAL NAVPATASAK LNLRVPALE ANDVAEKLKQ HLINHTPWGA KITVEIDDIN  
QPFFSTDTITGP AMSTLASCLS AAYEGKDLVT EGGSGSIPLC TELIEVNP

> RXA00907 (1-123, translated) 41 residues  
LALYGVEEPL TVIHSANESV DPNEIRDIAT AEALFLLNYT K

> RXA00912 (1-273, translated) 91 residues  
MDNTLYTAGL TIAAAFFMLS FIFTIYRIIV GPNSIDRLG LDGTVSMIQC SMATYICWTL  
DTTVTNFMMV IALLGFISSV SVARFRKRDG A

> RXA00944 (1-972, translated) 324 residues  
VDFWTILDTM TSLLTPIAIR GLEIPNRMWL APMCQYQANN LDGVPLDWHL VHYGARAVGG  
FGLLIAESTG ISPEGRISSE CTGLWNEAQV EAWERITNFV HAQGGIGLVQ LNHAGRKAST  
YPALPNFPTG TQSVDEGGWE TFGPSAVAQP GLADPTLTRL EGIEKVIQDF AAAAERAVRA  
GFDAVEVHGA HGYLLHQFLT PLANKRTDIY GGSFENRTRL FREVAQAIRA VIPGSMPLIA  
RISATDWIDD EPSWDDDDQTV SLVSGSEKAG CGCSRYFHRR CSTRDNPCGA ELSSEICSSC  
EARGGYPYLR GWINYSCGSG AGAS

> RXA00961 (1-432, translated) 144 residues  
LENWRIGRML LLGDAAHAPL QYLASGAVMA MEDAEAVALF AADAARAGNL DWEEVLAEVE  
AERRPRCSRI QTVGRFWGEL WHVEGTARLI RNEVFRQADR NGWFIYADWL WGYDASKRAH  
IANPELGEMP QALKEWRYAL LEQK

> RXA00964 (1-1125, translated) 375 residues  
MGAPGKNDYA TEHVKQEVPP ATPEEQAELD TMYKRMDDLH LKPLWTQIGG LMPNHPEPRA  
VAHKWDWAEL LKLAQRSSEL VPVGRGGERR AIGLANPGLD GNTYISPTLW AAIQYLAPGE  
NAPEHRHSQN AFRFVIEGEG VWTVVNGDPV PMRRGDFTLT PGWNYHGHNN IATEPMAWLD  
GLDIPFAYQM DTGFFEYGTG KLTDESTPDL SRSERLWHP GLRPVSFPKG TSYSPIGRYA  
WEHTDAALND QLALEEAGHP GTVAPGHAAI RFSNPTTGGD VMTTIRAEFH RLRPGASTAP  
IHEVGNRFCFQ VFEGSATINV GDKTFEANGH DVINVPSWQK WNIVAGSDGV DLFCFSDTPI  
FEALNLARTF TPEGI

> RXA00977 (1-1014, translated) 338 residues  
MPTAAQENI RWECPQVD IASACGSID VPMHYS DPSL GDISVGFVKV PAQGEKHGTI  
FGNSGGPGGD AYSFFGSQSM NWPEAMYQNY DLVAVQPRGM VGSTPVNCDN IAPGYDFLSL  
LTREGAFVKE SCEIGTPGYT SSLTTDNTAN DWERVRQALG DDKISIFGLS YGTYLGSVYA  
TRYPOHTDKV VLDSAMAPSL AWNGIMASQE QGYKNSLNDF FTWVAENNDT YGLGTTPLAV  
YQNSNKKIVA ETGTNPTVAP PPAQVGDVPP AFAWAGQAGA DMMTATNPTS VQLQGLATQL  
LNPGSNQSL S PLLNVTRAYI PQPSTWPLMA GAISGQTP

> RXA00982 (1-246, translated) 82 residues  
SQLAVQPLLL QGTSDPQTPY WTHNELADAM NAHVVTVNGP GHGQSIGGTN QAINDIVVDY  
LRTGHTDATW VEGNTPTPIT AG

> RXA00983 (1-1197, translated) 399 residues  
VTAGETTTMN VTLTNPFDNA IFDRAVSLER PEGWQAEDVR VSIPSGESVT IPVQVTAPLV  
ADNGELPVEV SILDGADRYT GRLNLTVOGG QEPAPTSVKV SIPNLKDTYV AGEKISINFA  
VNNPFDVTN SVPSLGESEN WMPANLRGFD PEQGTPTNCRY KNLGANKSYD CTTTTYEVSD  
LDVERGYVDI PTVWTFNTSA GETVWSKNVD VPRVELNGTQ DAVTDAIVTV DPINPVHSNG  
QSQTVEVQAN VTSEGDLPAQ SKVAFYLDSS PIDTAAVDAE GHASISIDVD NIASEQPERT  
FEVRARLVVP EDAPRSIARD ALARFTVLSE QVQQNSLVIM NHPDVFSDBG TKTIVIAAKA  
TAHDGSPAII GTLIAFRVNG IERDVVPTNA QGTAKLQLD

> RXA00984 (1-417, translated) 139 residues  
QRGTPVLLGE TPWMKTKIVE LSDGTLMNNS RSSGADTYRK VSYSTDGGVT WTEPTLDTQL  
PDPNNASLI RVFPTAPEGS AQAKVLLFSN TATTSGRTNG TVRMSDGGQ TWPVSKVFEP  
GAIQYTSMT LPNGDIGML

> RXA01014 (1-1578, translated) 526 residues  
DDLWLNESFA TWSAAISQAE ETEYNTAWVT FANVEKSWAY QQDQLPSTHP VFSDGYDIET  
VDQNFEDGITY AKGASVLKQL QAYVGREEFL AGVRRHFANH AWGNASFDL LGALEQSSGR  
DLSDWANQWL KTTGINTLGA KFTTDNGKYT SFSVTQTGAA PGAGELRTHR IAVGLYKLVD  
GSLNRYARVE LDCSGASTSV EEIVGLEQAD FVLVNDDDL YALLDLDDDS RNFVIDNIDK  
FSDPMPRTLW WSAAWEMTRA GQMKARDFIA LVARGAAET EIAVLERILA QATSALKSYA  
DPAWAEATGN DLLADAFLEG ARSAEPDSDT QLAFIQALAK ATLNDAAADY FRDILAGNVE  
GLTVDPDLRW WALTALIARG DIEAVEDAIA AELSRDNSSA SFLASLRAGA AVNTEEVKAA  
AYKHVPVAVDS GLSNLELRHK IEGLTFTGSF ELLQAYNEQY FEILDDVWAN FSGEMAQQIV  
LGLFPSWNVS EEGLKRTDEF LDGEHVAGIK RIVSESLDRT ARALRN

> RXA01018 (1-864, translated) 288 residues  
LTSTNLTRQE ASDRSRLLSV ENYDIALDLN NGDEFFSSST VVSFTVRKAG DTFIDLRAAS  
VEEVRLDNVS IKDEALTLGK NGYDETFGIA LKGLTPGAHT LRVTASIPYS RTGEGLRHMV  
DPADNEVYLY TQFETADAKR MFACFDQPD LKATYDLNIKT PKGWKIISNS EQQVSTQHTD  
YDTHISRVYD PLSTYLIACV AGRYHEVCDV WKGTLLTHHAE TPADQPTLT VPLALYCRSS  
LAKDLDAVRL FTETKQGFWD YHRNFGVAYP FGKYDQIFVP EFNAGAME

> RXA01022 (1-804, translated) 268 residues  
HFDGSLYAT ADVIFPVLHG RFGEDGTVQG LFALSDIPVV GPGVLASAAG MDKEYTKKLM  
AAEGLPVGRE VILDRTEL TAEKNLLGLP VFKVPARGGS SIGISRVTAW EDFNKAVGLA  
RAHDEKVIVE SEIVGSEVEC GVLQYPDGRI VASVPALLSG TESGAGGFYD FDTKYLDNVV  
TAEIPAPLDE KTTIELIQSLA VESFQALACE GLARVDFFVT ANGPVLNEIN TMPGFTPIISM  
YPQMFTASGV AYEELLDVLV QQALHRDN

> RXA01055 (1-102, translated) 34 residues  
MWGVVLGPAT GKYLAELMAT GNTNPIIKPF DPLR

> RXA01056 (1-900, translated) 300 residues  
MSSSGKVIVV GAGIVGLATA WHLQEHGFEV SVLDRDGVAA GSSWGNAGWL APAKTIPLSE  
PGLWYGPKE LFNVPSPMHM PLRVDPKLWL FLAQFMAQAF QRKWDSTMA D LTEDIKVALE  
AFDELSIGGV EGLTHEGPFV IGFEERQSA GFRKEIDGVS RHGQKVEMSR LENPQELAPM  
LNEQIQVAYR LEGQRFIEPG PYVQSLADAV VKRGGVIRAG AEVHVHAKGD RPAVILADGS  
REEADKVVVA TGAWLPGLTR EYGVKTLVQA GRGYSFSVAT DIPAKHSVYL PHHRHGLHAV

> RXA01057 (1-1503, translated) 501 residues  
LPEGQSGTIV LVSDGIATCT PPPVCEVAAE LADQGVLDVI NTVGFNVDES ARAELECIAQ  
AGNGTYADAS DADSLVAELK RAATRTAVGY ESDLEQIDGN SSQTSLTPIP DDVELFKADL  
PALDNKDGEV TQYWSIPVED YERVQVTSY VAPVTFGLGN DYLSIRNELL FGDEQDQTC  
RSISNDQILD NYGARPLVAS VESDVIGDKC DTDELVLAIT RSQPFNWEEE LPVEIVVKRL  
NHADTSGPLP GDQQREIPDL DVAAVQTWAP TTGGSWFTNA TELTPGEGVE AEIVPGENHV  
YRLPMATGQQ LHGFVEVVEN TAPDDPGVTD KLGAVVYSPT RQDAGVDMWT DIAPREGTSE  
YFAAPVALTY LNMFPAGEGF GTTSKATSTF TFEGDYLLV HYDDLSGSTI RDASNQQSFP  
LRYRLAADAF GDAEPGPVFE KVSATSESS SPSTQPDEPA QNTATEESST GISPLIVGAI  
VALILAFAAF ASWLVLKGRK K

> RXA01059 (1-609, translated) 203 residues  
 MTTVTQDLLA LDEDAQNLLF REARTANAFT DEPISEDEQIE AIFDLVKWAP TAMNSQPLRV  
 VIVRSEEAKA RLVPLMAEGN QAKVAAAPAV ALLAADIDFH EEMPKLFPPF PGARMFEAD  
 EASRASSAEL NAGLQIGYAI IGIRAAGLAA GPMTGMDADA ISKEFFPDGR HRVLVAINMG  
 KPADNAWYDR LPRLEQDEVV ETL

> RXA01073 (1-831, translated) 277 residues  
 MTNTQTEIIN ELKVSPAIDV AKEVEFRVQF LVDYLRASHT KGFVLGISGG QDSTLAGRLT  
 QLAVERIRAE ENSTDYVFYA VRLPYAIQAD EDDAQVALEF IAPDKSVTVN VKDATDATEA  
 TVAAALELPE LTDFNRGNIK ARQRMVAQYA IAGQLGLLVI GTDHAAENVV GFFTTFKGDGA  
 ADLLPLAGLS KRQGAAILEH LGAPSSTWTK VPTADLEEDR PALPDEEALG VSYADIDNYL  
 ENKPDVSEKA QQRIEHLWKV GQHKRHLPAT PQENWWR

> RXA01082 (1-660, translated) 220 residues  
 LTQWGNNSNV EDYLTALFRA EEWDDEPTTG KLAEVIGVTA STVSATLKKL NPEGFVNYRP  
 YGDIELTPAG RDIAINVIRR RRIIETYLSE KLGLGAHELH GEADLLEHAV SPLVLEKMFQ  
 AVGYPTLDPH GDPIPTESGE MTINDGLMLL GLKAGASATV TRVRDGNPSV VRYLTGVGIT  
 VGTTVTVVEA LSDIATLRLQ IGEMFQDIPL AVANAVRVS

> RXA01090 (1-312, translated) 104 residues  
 MALPLPSKSA RALVTGASQG IGLAIAKDLA RYGHNLILVA RREDVLKEIA ADLEKKHGV  
 VEVRPVDLSD EPARKVLIDE IKTREINIII NSAGIGKLWA VQGP

> RXA01113 (1-237, translated) 79 residues  
 GDIWERPGLD HTQRRLLTIA ILTAVGNDGE LDMHIRAALR AGVDQETIGE VILHTAVYAG  
 VPNSNHGFKL LNNAVSDLQ

> RXA01117 (1-741, translated) 247 residues  
 MINKSISSTA EAVADIPDGA SIAVGGFGLV GIPTALILAL REQAGDLTI ISNNLGTDGF  
 GLGLLLLDKK ISKSIGSYLG SNKEYARQYL EGELTVEFTP QGTLAERLRA GGAGIPAFYT  
 TAGVGTQVAE GGLPQRYNTD GTVAVVSQPK ETREFNGQLY VMEEGIRADY ALVHAHKADR  
 FGNLVFRKTA QNFNPDAAMS GKITIAQVEH FVDELHPDEI DLPGIYVNRV VHVGPQETGI  
 ENRTVSN

> RXA01120 (1-1278, translated) 426 residues  
 MARMQESADL LKCSFCGKSQ KQVKKLIAGG AVYICDECIE LCNEIIIEEL GQAQHDEQER  
 NELPKPSEIS AFLDTYVIGQ DPAKRILSVA VYNHYKRLRA SETIGRRRND EPETELVKS  
 ILMLGPTGSG KTFLAQTAK LLDVFFAIAD ATSLTEAGYV GEDVENILLK LLQAADFVDE  
 RAQRGIIYID EVDKISRKSE NPSITRDVSG EGVQQALLKI LEGTVAAIPP QGGRKHPNQD  
 FIQLDTNIL FIVAGAFSGL EKVIADRNGK KGLGFGVEVS SKKEEANIVD IFKDVLPEDL  
 VKFGLIPEFI GRLPVVATVS NLDQKSLVKV LTPRNSLVK QYRRLFEMDD AVLTFDDEL  
 EEIANQALER KTGARGLRAI MEEILVPIMY DLPDRKDVGE VIINGAVARG EAEPEMLEAV  
 AEEKTA

> RXA01224 (1-1023, translated) 341 residues  
 MSILDTLKT VIVAPMAGGP STPALVNAAG EAGSLGFLAG GVMPLQLKQ ELSEVKG VFG  
 VNLFRPQTD PKPSDIDELA GLLSSAFRQF GLDEPTVPTP DLSNGWEAKF EAVLAAPAV  
 FSCTFGIFSA EEFARIKATG IEAWVTVTNP EDALAAQKAG ANALVVQGPE AGGHRSTWSI  
 EVEPDERDLK TLLAAVKQAG VYLPLIAAGG LSTSADVAAI LEAGASAASC GSAFLLSDEA  
 GTSSLNREIL DAAPALGLES VSSRAFSGRY ARGVETRFTR SNEGLPPLYP YLNPMTSLR  
 KVAGSAGNWD YAYCLVGVL ESIKGSQK ILESITPSAL G

> RXA01126 (1-564, translated) 188 residues  
 SAESLPPTLF LKPPTAVTGP ESPIRIPSFA TKVEFEGELA VVIGKPCKNV KADDWKS VVL  
 GFTIINDVSS RDLQFADGQW ARAKGIDTFG PIGPWIEDI NSIDLNLPI KARLTHDGET  
 QLKQDSNSNQ MIMKMGEIIE FITASMTLLP GDVIATGSPA GTEAMVDGDY IEIEIPGIGK  
 LGNPVVDA

> RXA01147 (1-1260, translated) 420 residues  
 MHVTDDFLSF IALSPSSYHA AAVERRLH EGFIRQEDTD EWDARPGGHV TVRGGAVVAW

WVPEDASPDG GFRIIGSHTD SPGFKLKPRG DLSSHGWQQA GVEVYGGPIL PSWLDRELAL  
 AGRIVLADGS VKLVNTGPIL RIPHVAIHLD RTVNSQLTLN PQRHLQPVFA VGEPLVSIID  
 VIAGAAVVDV ADIVSHDLIT VATQDAEVFG AHGDFLASGR LDNLSSVHPS MTALIAASQS  
 DDTGSDILVL AAFDHEEVGS NSTSGAGGPL LEDVLNRTAR ALGADEDERR RMFNRSTMVS  
 ADAAHSIHPN FPEKHDQANY PIIGKGPVLK VNANQRYTSD AVTSGMWIRA CQIAGVPHQV  
 FAGNNDVPCG STIGPISATR LGIDSVDVGI PLLSMHSARE MAGVKDLMWF EQALEAYLVN

> RXA01151 (1-858, translated) 286 residues  
 MSSPTDSSPS NSFSDFNREE QSRLSDEVRO LKRTNSDLGA RNAKLAEMLK SSRDKLSVLF  
 SQLEDMAQPP SVYGTFFLETA KDGSNAEIFA GGRMRVAVS PMLCAADLMP GVQVRLGEGN  
 QVLEACDFEQ TGELATLMEM IGRDRALVSD RSGEERVVKL AGPLMDRTAK LPRPGDTLLV  
 DRKAGYAFEA IAKTEISRLA LEEAPDVSYQ DIGGLDDQIE LIQDAVELPF LHPEMYRAYN  
 LHPPKGVLLY GPPGCGKTLI AKAVANSLAN RIGETGTSYF INVKGK

> RXA01161 (1-1137, translated) 379 residues  
 MSDPSTNNFP TSVYAQRLAD AQEGARKAGL NGLIIGTGAE LAYLTGSWIS THERLTALVI  
 PSEGTATIVL PAVDRGDLAL SAIPGLDINV AGWVDGDNAH ELAVDALGVS EFEALGIGSS  
 ITADHLIPIQ NLVGSTCRME LAVQVLKELF VSKDEAEIEQ LRGAGAAIDR VHAKVPELLQ  
 DGRTEAEVAA QLNDLILEEH SEVDFVIVGS AENGANPHHG FSDRVLRNGD IVVVDIGGTF  
 GPGYHSDCTR TYIVGGNPDD ADPEFAKFYQ VLYEAQLAAV AHVRPGVTAE SVDAVARDHI  
 AAAGYGEYFI HRTGHGIGLS THEEPFIMAG NSLVLEAGMA FSIEPGIYIE GIHGARIEDI  
 VVVNEDGCET LNNQPKELR

> RXA01181 (1-957, translated) 319 residues  
 SVLLARDLVN TPSSHLYPES YSVIASNEAS KHGLQTTILD EKQLADQGGF GILAVNGGSS  
 RKPRLLRIDW KPRKAKKSIA LVGKGITFDT GGSIKPGAS MENMISDMGG SASVLATIIA  
 AARLNLSINV FAFLPMAENM PSGDAFRPGD VITHFGGITS EILNTDAEGR LILADAIAYA  
 SEDKPDYLID AATLTGAQLV ALGLRTSGVM GTDEFDRDVA KTGREVGEQA WAMPLPEELD  
 EQVKSPVADL RNVNRSRFAG MSAAGRYLQE FVGADIEWAH VDIAGPAYNT AGEFGYTPKR  
 ATGQPVRTFV QVLKDLSES

> RXA01182 (1-393, translated) 131 residues  
 VFNLFGKTP RSNLRPPRGP GDTVPRDLK FLMQWVQDKP FVEAFVEPET LVNEMSVVLV  
 DAHGVFVRRR IGGPKGIDVI AKKLGVVVDY VEETGYPRM RERIEYERIL RKREEQKARR  
 AKFERGENPD L

> RXA01189 (1-609, translated) 203 residues  
 MISISIADDE ALIASSLATL LSLEPDLDVR PTAGSGEELI ETWADPSNRT DVCVLDLQLG  
 GIDGIDTATR LMETTPDLAV LIVTSHARPR QLKRALAAGV LGFLPKTSTA DEFATAIRTV  
 HAGRRYIDPE LAAMTISAGE SPLTNREEEV LELAGQGLSA EEIAVAHAHLA PGTTNRNLSQ  
 AMTKVGAQNR FEAFTREARL GWL

> RXA01192 (1-573, translated) 191 residues  
 VAARYADTYL TWGETPDQVA QKINWINELA AQRGRELRHG IRFHVITRDT SEEAWVVAEK  
 LISGVTPQV AKAQAGFATS KSEGQRRMAE LHSKGRAFTS GSTARDLEVY PNWAGVGLL  
 RGGAGTALVG SHEEVADRIE EYAALGLDQF VLSGYPNLEE AFHFGGVP KLLRRGVDIK  
 NQESRVLEPV G

> RXA01214 (1-1491, translated) 497 residues  
 VLAATVVGAQ VLVACSSDDV RGYGGEPRTL PIPPADLGTR EGSSVHFALE AQTGESQILP  
 DVTTKTWGFN GTHLGPTLVV KKGDDVHVDV INNLDGMTTV HWHGMKLPAL ADGGPHSPIG  
 PGQTSPTWT VANDAATLWY HPHTHGLTGL HAYRGLAGMI IVEDEATDKL DLPREYGVDD  
 IPLVLMDHRF LEDGSLDEED LPDLGLLGDT PTANGITNAH FDATRRRVRF RVLNGSNMRF  
 YNLAFSDFRT FQVIASDSGL LDEPQDRRTL AIGPGERWEI VVELEPGEDV TLESVGFEDN  
 YGVPDDEFVP DFGMSDSFQL LTITGPSDDA AQAPALPGVL VKSTEPDVID ATERTFIMNT  
 FSINDLQMDM QRVDVVIDHD QPEVWIVTND NSDWPHNFHV HDARFKVLKF EGTDELVELFND  
 GWKDTVGLPP GATATLAVEF GHYPDPQWY MYHCHMLYHE DQGMGQFVI VEPGDEPAAV  
 LSGTGSSID SAGGHAH

> RXA01224 (1-1023, translated) 341 residues  
 MSILDTLKT VIVAPMAGGP STPALVNAAA EAGSLGFLAG GVMPLEQLKQ ELSEVKGVFG

VNLFRPQTDA PKPSDIDELA GLLSSAFRQF GLDEPTVPTP DLSNGWEAKF EAVLAAKPAV  
 FSCTFGIFSA EEFARIKATG IEAWVTVTNP EDALAAQKAG ANALVVQGPE AGGHRSTWSI  
 EVEPDERDLK TLLAAVKQAG VYLPLIAAGG LSTSADVAI LEAGASAASC GSAFLLSDEA  
 GTSSLNREIL DAAPALGLES VSSRAFSGRY ARGVETRETR SNEGLPPLYP YLNPMTISLR  
 KVAGSAGNWD YAYCLVGVGL ESIKGSAGQ ILESLTPSAL G

> RXA01232 (1-687, translated) 229 residues  
 MSRQXXTYTD KDISQFHWNT GLPPTDDESP EWIAARDNEW EGYTITLGDD PNGTEKTITL  
 DDLRELPQTS YVAVXXXXQX LGQXXPXXPX GAGYRDVLCH DLVHTLDLHH RHPRLLTIE  
 IIPKPLPPET RCKIIDFDLF APNSPSIEEF CSRLKISRRS FYNIRNRYQQ DASAALHPRS  
 SAQITSRRTY DESITSIXVG HXAHRLKAQG XGIRSDLYPI XKASXTXGN

> RXA01236 (1-945, translated) 315 residues  
 VLVATALIAG CSSAEDGTV DSGSSTEVT TTS QSEGFPTV TFAPAPVTI EDQPERIVSL  
 SPAITETLFA VGAGDHVVAV DEYSNYPEDA PLVQGLSGFT PNVESILDYD PDLVVLMSAD  
 DSILTGLDAA GVDTLVIPAA ENLDETYSQI EQVGRATGFE DQATTVVDQM KTAIDAAVAT  
 VPEEVKEQGL TYFHELGS DLFTVSEQTYIG QIYDMFGLTS IADGGDAYSQ LSNEAIIAAN  
 PDLIFLSDAK AENLTAEDIA ARPGWDTIDA VANGRIYILD DDIASRWGPR VSQLVVEEIAA  
 QLNQLASSEA VPAAA

> RXA01250 (1-588, translated) 196 residues  
 LDIGGIEAKT WGYVSDTGDA AIEATAGDVL QVDITNDLPE STSIHWHGIA LHNAADGVPG  
 MTQDPIEPGE SFSYVFEVPH GGTYFYHSHT GLQLDRGLHA PLIIRDPQDA EDQDVEWTIV  
 LDDWVDGIQG TPDELDKLT GMGSGDHNGR MGMGGHGQMM HGTPDRVLGG DVGDMYPHY  
 LINGRIPRAH RTFEAR

> RXA01254 (1-1269, translated) 423 residues  
 MKLSLPAPLR RLRSAAAIIS AKVATSASKA TGRGSGGMIG GLVASKVDPD IMSNLINNRP  
 TVLVTGTNGK STTTRMLAA MRSTYTVATN EGGDNMDAGI ISALLAGRNA SHVVLEVDEL  
 HVPAAIERLK PDALVLLNLS RDQLDRVGEI NKIERVLRDA VRSRPEMTVI ANCDLVVTS  
 VAFDAENVIV VGAGTGWQGE SATCPRTESR ILHDGRHWSA EKTLLDGRTF ARPTPSWEVD  
 GDTIHSPSGD LTLDLNLPGQ ANRGNAQA I AASTVFNV PV SSALPAVNSV NNVAGRYSTI  
 TVGEHKVHLL LAKNPAGWQE ALSMVDRTAD GLVIVVNGQV ADGEDLSWLW DVRFEDFENL  
 SVKASGERGT DLAVRLTYAE IDHELISNPV DAIAACPPGR IEVLANYTAF RDLKKALEKG  
 TEQ

> RXA01257 (1-846, translated) 282 residues  
 MHVAELSLPT GIIIAATPLG NIGDASRLV HALANATVVA AEDTRRTASL AAALGVEIKG  
 QLVS NFDHNE QARVGKLIEA ARTGTVLVVS DAGMPVVS DP GFALIDAAHD ANIPVTCFPG  
 PSAVPTALAL SGLHVGRFAF DGFAPRKQGA RTTWLES LK EKRACVFFES PHRIAETLAH  
 AA EVLGERRV AVCRELSKTY EQVKRGTLPE LAEWAQDGVR GEITVIEGA GDIAADVDLSL  
 IDAAQQRVDS GERLKAVCAD LAKIHGVS KN ELYDAVISAR EN

> RXA01270 (1-1155, translated) 385 residues  
 MTNERIFLSS PDVTQLEEDA LVRAIRSGWI APLGPEVDAF EQELAEYCGR KYVVALSSGT  
 AALHLG LLLAL GVGEDLVLT SSMTFAATTN AIVYTGA EPI FVDCDESGNM DPLLEKAF A  
 ELKSEGKEVK AVVPVDLLGK VVQHEKIKKI ADEYGAVVLS DAAESLG AIR NGKSAAAYGV  
 AA AVSFNGNK IMTTSGGGAL LTDDKD IADN VRYLATQARQ PVVHYEHTDV GYNRLSNIL  
 AALGRAQLSR LDKMIERRRQ HRAFYRELFA GVSGVEIFGE PSGVDGGDTI DNFWLTSILI  
 DKEVAGFSSE DLRSVLNQAN IESRPLWKPM HLQPVFKKYR SFTNEEGQRL FDSGLSLPSG  
 SVLDNASMNR VETTIGQFLE SQHAI

> RXA01277 (1-1689, translated) 563 residues  
 MTDYTFLEDI DTPEALAWAE KWSGESVEKL KSPAKDALEA RLLAALD TDD RIAYVSR RGE  
 KLYNFWRDAQ HPRGVWRTT LESYESDQPE WDV LIDVDAL AEDEGENWVW KGAVVRSPEF  
 DRALVKFSRG GADATVIREF DLATAAFVDD SPFELKEAKS DVTWVDLDTL LVGTD TGEGS  
 LTDSGYPARV LTWKRGTPL QAE LFFEGSR QDVATHAWRD STPGFERTFV SRSLDFYNSE  
 TSLPETEGGLV KLDVPTDCDV IVKKQWIFVS PR TDFAGIPA GGLGV LLLKE FLEGGRDFQP  
 VFTPTSTSL QGLATTKNFL VLTLLNNVST EIVTVPLNDP TTEHEHIDL P EHVTAHVVAT  
 SPLDGDEI WV QAASFTEAPT LLRAELPGAL EAVKKAPLQF ENAGQETRQH WATSADGTKI  
 PYFITGAFEE EPQNTLVHAY GGFEVSLTPS HSPTRGIAWL EKGYYFVEAN LRGGGEFGPE

WHSQATKLNLR MKVWEDHRAV LADLVERGYA TPEQIAIRGG SNGGLLTSGA LTQYPEAFGA  
AVVQVPLADM LRYHTWSAGT SWM

> RXA01288 (1-375, translated) 125 residues  
MNGIGGSGDF TRNAFASTFI SPSAAKVDAI SAIVPFASHI DTHEHDAMVV ITEYGYADLR  
GLSPKQRPVK MIAIAHPDYR PLLEAYFDRA LNSADSYQHT LHDLRTAFDF HNRLNSQGT  
KIEKA

> RXA01302 (1-366, translated) 122 residues  
MTTTTSSGKS SEKINPLFKL GSFLRKGTVG SEGQQIFLQG GRQADVIFYRN RWAFFDKVVR  
THGVNCTGSC SWKVYVKDGV ITWESQAVDY PTTGADMPDN EPRGCPRGAS FSWYTYSPTG  
IR

> RXA01303 (1-1335, translated) 445 residues  
VTQLNTKGVV LQGWDPEDE HWDSKIAWRT LWITTFSMII GFCVWYLVSA IAPLLNRIGF  
DLSAGQLYWL ASIPGLAGGL IRLIYMFLPP ILGTRKLVGI SSGFLFLIPMF GWFLAVQDSS  
TPYWLLTLA ALTGIGGGVF SGYMPSTGYF FPKAKSGTAL GIQAGIGNLG VSIIQFMGPW  
VMGFGLLGIG FLTPQRTIEG TTVFVHNAAI VLPVWTLAA VLSFLFLKDV PVTANFRQOI  
DIFGNKNTWI LSIIYLMTEG AFAGFAAQFG LIINNNFGIA SPMAETYPAE MLHAGATFAF  
LGPLIGALVR AAWGPLCDRF GGAIWTFVGG IGMTIATAAA AIFLSRAETP DDFWPFWSM  
LALFFFTGLG NAGTFKQMPM ILPKRQAGGV IGWGAIGAF GPFIVGVLLS FTPTVAFFWG  
CVVFIIATA LTWIIYARPEN APFPG

> RXA01307 (1-681, translated) 227 residues  
VLAWRDIVET PEKRKAYVSQ RGKGGILRVQ YEEAMEIAAA AHVYTIRQYG PDRIHGFTVI  
PAMSQVSYGA GTRFLQMIGG VALSFYDWYA DLPPASPQTF GDQTDVPESG DWYNSSYLMM  
WGSNIPVTRT PDSHFMEAR YKGTKVVVVS PDFADSTKFA DEWARIHPGT DGALAFAMGH  
VILKEFHVDK KTPYFMDYMR KYTDSFPLVE LDEHGDGTYT PGKFLTA

> RXA01308 (1-1206, translated) 402 residues  
AATPNATHRL LVLQKDGSVV DPGGTVADRW GEEGMGKWNL RLDGVDPVMT IADVQTDDET  
AEVLFPFDL PATATQEGPI GAGTISRGPV TITLNGRKYT TVFDVLLAHY GVNREELNLP  
GEWPKDFQDP VMGTPAWQEE LTGVPAQAI RLGREFAQNA DDSKGRSQII MGAGVNHYFH  
ADSIYRTFLA LTSMTGQGV NGGGWAHYVG QEKLRPMNGW AQYAFATDWQ RPPRQMITTG  
FYLTLDQWR YDNTRANRLA SPLANRGTVG DKMTADTLVE SMKRGWMPST PQFNRLPLIL  
SQEAEEKGVS VSDHIVQQLT DGDLDQFACED PDAPENWPRI LLNWRTNLMG SSAKGTEFFL  
RHMLGVDSDA SAEKNAPEDR PSSIVWRDEA SEGKLDLMLT TD

> RXA01309 (1-669, translated) 223 residues  
IADHEGTHIN WDMVKERSAE VITSPEWTGS KKDGRRYTAF SINIEYDKPW HTLSGRMHYY  
LDHDFIDYG EQLPIFRPPL DKIHINGEVG PGQSVTGTG EPEVTVRYLT THNKWSIHSQ  
YYDNLHVLSI SRGGQVIWMS NKDAEKLGA DNDWIEAYNR NGVVSARAIV SHRIPEGTVF  
MNHAQEPTAG TPLNEKSGRR GGTHNSLTRI MIKTVHVAGG YGT

> RXA01324 (1-300, translated) 100 residues  
MSNSECHTHG YIEEKQRYLA RLKRIEQTR GIHRMIDEEQ YCIDILTQIS AVNSALKNVA  
FGLLDHDLAH CVKEAADLGG DELDAKLKEV SDAIARFSKA

> RXA01340 (1-990, translated) 330 residues  
VGPVLAITPW NFPIAMATRK IAPALAAGCP VLVKPAETP LTMVKVGEII ASVFDFTFNIP  
QGLVSIITTT RDAELSAELM ADPRLAKVTF TGSTNVGRIL VRQSADRLLR TSMELGGNAA  
FVIDEAAADLD EAVSGAIAAK LRNAGQVCIA ANRFLVHESR AAFTSKLAT AMQNTPIGPV  
ISARQRDRIA ALVDEAITDG ARLIIGGEVP DSGGFFYPAT ILADVPAQSR IVHEEIFGPV  
ATIATFTDLA EGVAQANSTE FGLAAYGFSN NVKATQYMAE HLEAGMVGIN RGAISDPAAP  
FGGIGQSGFG REGGTGEGIE YLSVRYLALP

> RXA01354 (1-936, translated) 312 residues  
MKISRRFLG TLLGATTLAV TACAQSSQNG NSSASSSSSS SAESSTSSSS SDEQRIVALN  
TGQLDNLLLL GITPVGVAAA KNSDLIPQFL KDRFGADM DL DSADCGLRQ SPDIEAIANL  
NPTLICANSR ADEEVNKLK TIAPVVTGEG GGENWKQDLL TIAEAAGQKE KAETLLKSYE  
DSAAEIAANQ PANPPTVSFL RTKDQEFQMY GAQSMAGTVA ADCGYARPEN QQFTDTAGQD

LSAELIAQAD ADWLFYGIKE GNINPEDTPL WTSKAVQSN QAIPVDGDSW YLNASLVS AE  
IILQGLKDNV TV

> RXA01358 (1-1521, translated) 507 residues

MALGRTISTA QLGVQAKIVR VEANVGPGLP GTYIVGLADT AISESRDRIK TAVQNSGLMW  
PKTKVIINLS PASMRKQGSQ CDLAMTVAVL VAHGSNPKAK FHAQNTLFLG EVALDGTLLP  
VTGVLALLA AKEEGIGKIV IPEGNAQEAG LVEDPSVFLA HSIDQVLRWL DGEEALPQPG  
LFNDENSLKL PDMRDVVGQP EARFAAEVAA AGGHHMLMIG PPGSGKSMIA ERIPSLPEL  
SPQQMIEATA VHSVVGRTFS GPVSRAPFIS PHHNVSKAAL LGGGSGSPLP GAISLAHHGV  
LFLDEVSEIP ASILDSL RTP LEYGSIRIIR SRHDVTFPAQ FQLILANPC RCGAEQPPQC  
VCSGSARATY LNNLSGPLRD RLDMVVATHS KGAVLRSDDV EASAPIADRV AQARERAAFR  
WRRSGLGNLV NAHVDPHFLR RNFAATEDAM VYLGAFLAEG TISQRGCDRA IKLGWTLCDL  
DGEQQPNLDH IARAMELRGT TYSEVAA

> RXA01385 (1-1881, translated) 627 residues

MQFHYEGYAT GDPMEMRAEG SGINRPDDL EVMVDLIVGA GPAGTIAAAQ LSRFPNVTTR  
LVERSDRRLE LANADGVHSR TIETFQAFGF AHEILAEAE ITDMAFWKPD PQNPRIIRD  
NSTRELPHI SEFPMALLTQ TRIIDHFNRF MKNSPTRMKP DYGFEVDFE VEEDAEYPVI  
VTLRRTSGEQ TGELVTVRTK YLVGADGARS QVRKSLGYRL QGQANHAWG VMDIHANEF  
PDVRKKCTIK SDSGRTILLI PREGGFLFRL YVDLGEVPDD GSKAVRDTPL QDVIDTANQI  
MAPFTLDVKN VVWNSIYEVG HRVADHFDDR VSEKTSSEHP RIFIAGDACH THSAKAGQGM  
NVSMQDGFNL GWKLGHVASG NSPRELLQTY AEEREDIAYK LIEYDKNWST LMAKPSSEMG  
SAQDLEDFYR ANSEFNAGYM THYPPSSITM DGSNQDLAKG YPIGRRFKSA MVGRVCDLTE  
THLGHQATAD GRMRAYVFAG SDALNGEGSE LDRWAEWAEA NLDPTLVDAK VIYQSPYTEL  
DTRQVPSVFK PAVGIFELTN VENSFGITTD SDIFDSREIS RDGVVVVVRP DQYVSGIFPL  
TDTQGLGEFL TGYFPMKGA HQLINAN

> RXA01412 (1-204, translated) 68 residues

MALKNYTVEG MTCAHCVASV TEEVSEVNGV SAVDVTLESG NVAVSSEGFS DAEIQAAVEE  
AGYKIVAS

> RXA01426 (1-627, translated) 209 residues

MTTPPAAAEI FGDNLEKAIA YHESLATDGS VRGFIGPREV PRLWDRHILN CGVIGEAMDE  
GISVADIGSG AGLPGIPLAI ARPDNLITLI EPLLKRSVYL NEVKEALNLD NVTVVRGRAE  
EKVVRKQVGL VDIVTSRAVA PLGKLATWSL PLVKIGGRMV AMKGSSVEEE IERDAKEIRK  
AGGTDIKVYT VGEALLSEPT TLISIRREK

> RXA01427 (1-921, translated) 307 residues

MEDTTWEDTP IAAAARRAQ VMTPNLSLTLP KPKEPRLITI ANQKGGVGKT TSTVNLAASL  
AIHGLKVLV DLDPOGNAST ALGVEHRSGT LSSYELLIGE CTADEAMQPS TANENLFCIP  
ATLDLAGAEI ELVSLVRREY RLADALGREF IDKHDFDYMI IDCPPSLGLL TINAMTAVNE  
VLIPIQCEYY ALEGVGQLLN NITMLRQHLN RQLHISAILL TMYDARTNLA EQVATEVNDH  
FGDVVLGNKI PRSVKVSEAP GYGQTVIEYD PGSRGAMAYL DAAKELATRG DYLPSESGP  
IGLKPAK

> RXA01428 (1-1137, translated) 379 residues

MAQNKGS DKS QTEKRKGGLG RGLAALIPSG PSNSPGLGGG AADIILGGTV GARTAAAPKR  
ESTPAAPAPE APAQAAPQHT EATKPEVVPE PAAPAPTQSA QQEAPQAQPA QQSEFGASYL  
EIPIEQIRPN PQQPRHEFDP QALDELVHSI SEFGLMQPIV VRRSEDGYEL IMGERRWRAS  
KRAGLEVIPA IVRETEDSAM LRDALLENH RVQLNPLEEA AAYQQLLEEF GVTQAEADK  
LGRSRPVITN MIRLLGLPVN VQTKVAAGVL SAGHARALLG LKAGEDAQDT LATRIIAEGL  
SVRATEELVL LHNRGDQDEE KKPKEKAATP EVFTRAAESL ADNLDTKVS MMGKKKGKLV  
VEFGDKDDFE RIMSLIQGQ

> RXA01430 (1-1188, translated) 396 residues

VSKVLRVGDR SPRVAEVRTT LARLGVIEGY SREMSAKTES QKFHEEETLF DEELSLSIKS  
FQQARGV VPS GLIDDPTLRA IREASYTLGT RVLAYQPGNQ LVGDDVVEIQ SHLQELGFYA  
DRVDGHFGE L THKAVMNYQL NYGMQVDGIC GPDTIRALS LGLRIKGS A QAIRERERMR  
NAGPRLAGAKR VHDPALGGS NKGQIVKGYP GEISEEEILW DLATRLEGRM IATGMETILS  
RPHMDDPSSR DRASIANAFG ADLMLSLHCD SYPNEKANGV ASFYFGSENG TNSLTGETLS  
AYIQKEIVAR TPLNCCGSHA RTWDLRLRTR MPMVEVVTGY LTNPDDLAVL TDPQMRDHIA



EAIVVAVKRL YLLDEEAQPK TGTFKFSELL QSEQAG

> RXA01435 (1-870, translated) 290 residues  
 PLDLGFTTEA RQWLETLEGR IGDDWRHKWF SGITYLLDD YATAQVFFNH VLTILPGEAA  
 PKLALAAVDE LILQIGAES TAYLTPDIVS ATATLSKDFE DLDASAFESL SDTWSHISSD  
 PHVVRFHSLR LYALVWATNP TTVSSAFGLA RQLMAENQIE LAVQALDKLP QSSTHYRMAT  
 LTTILLLVSS NLSESRIIRA ARRLTEIPTN EPRFNQIKIA IMSAGLSWLR ERKLKASASA  
 NPLFEYPFSQ KGLRTGISEA LRIQARSAPF PHHRYALVDM ANAVRPLSWF

> RXA01437 (1-1383, translated) 461 residues  
 MSDTPTSALI TTVNRSFDGF DLEEVAADLG VRLTYLPDEE LEVSKVLAAD LLAEGPALII  
 GVGNTFFDAQ VAAALGVPL LLVDKQGKHV ALARTQVNNNA GAVVAAAFATA EQEPMPPDKLR  
 KAVRNHNSLE PVMSAELFEN WLLKRARAHEH SHIVLPEGDD DRILMAAHQL LDQDICDITI  
 LGDPVKIKER ATELGLHLNT AYLVNPLTDP RLEEFQAEQFA ELRKSQSVTI DEAREIMKDI  
 SYFGTMMVHN GDADGMVSGA ANTTAHTIKP SFQIIKTVP EASVSSIFLM VLRGRLWAFG  
 DCAVNPNTA EQLGEIAVVS AKTAAQFGID PRVAILSYST GNSGGGSDVD RAIDALAEAR  
 RLNPELCVDG PLQFDAVDP GVARKKMPDS DVAGQANVFI FPDLEAGNIG YKTAQRTGHA  
 LAVGPILQGL NKPVNDSLRS ATVPDIVNTV AITAIQAGGR S

> RXA01458 (1-1050, translated) 350 residues  
 VNRRIKTLTW GAIPVLVLLAS LVSIDHIPGT NINLSVPYAA EGPGPTINTL GQVDGEDVVS  
 ISSADLDETE GNLMNTTVSV RSGMTLSQVI SRWLFTDDTI VPQEQVFPFG QSTEEVEESN  
 RTAFISSESS ATIAAMNYLN IPVEVEVAEV LTDSAATGIF EPGDKLLSID GTAISTPGDA  
 QTIVRSKAPG DEITISYERN DAESQATITL REHPDDSSVA LLGISMLSVP SSAIEVDYNL  
 EDIGGPSAGM MFLAVVDKL SPGALNGGKF VAGTGTIAED GSVGPIGGIA HKVRAAEDAG  
 AEVFLSPADN CAEAMSAKPQ DMTILKVDLSL SQAIDQMAAY NEGSDFQTCG

> RXA01461 (1-459, translated) 153 residues  
 MIDTGKNGEF RYEQSNIIDQ NEAEFGITPS QTVGPYVHIG LTLEGAEHLV EPGSEGAVSF  
 TVSATDGNGD PIADAMFELW QADPEGIHNS DLDPNRTAPA TADGFRGLGR AMANAQGEAT  
 FTTLVPGAFA DEAPHFKVGV FARGMLERLY TRA

> RXA01462 (1-690, translated) 230 residues  
 MDIPHFAPTG GEYSPLHFPE YRTTIKRNP NSDLIMVPSRL GESTGPVFGD RDLGDIDNDM  
 TKVNGGEAIG QRIFVHGRVL GFDGKVPVHT LVEAWQANAA GRYRHKNDWS PAPLDPHFNG  
 VARTLTDKDG QYHFWTVMPG NYPWGNHNA WRPAHIHFS YGRQFTERLV TQMYFPNDPL  
 FFQDPIYNAV PKGARERMIA TFDYDETREN FALGYKFDIV LRGRNATPFE

> RXA01464 (1-291, translated) 97 residues  
 MLFLARMVV FPDSMDADV ADFQAKEKAY SGDLQSRGIM KAIWRVVG EY ANYSIFDVDD  
 HDELHAILSG FPMFKYMNK ITPAKHPNA LEYYLKG

> RXA01465 (1-1161, translated) 387 residues  
 VAGLFPLNQK AIEKLSDLTI QKVESRILDV PLIRPHGFAT TTSTEQHILL VSVHLENGVI  
 GYGEGVVP GG PWWGGESVET MKALVDGYLA PVLIGRAVSE LAGIMADLER VVARARYAKA  
 AVDVAMHDAW ARSLNVPVRD LLGGTVRDKV DVTWALGVLP LDVAVAEIEE RIEEFGNRSF  
 KLKMGAGDPA EDTRRVAELA REVGDRVSLR IDINARWDRR TALHYLPILA EAGVELFEQP  
 TPADDLET LR EITRRTNVSV MADES VWT PA EALAVVKAQA ADVIALKTTK HGGLLESKKI  
 AAIAEAGGLA CHGATSLEGP IGTAA SLQFA ASTKAISYGT ELFGPQLLKD TYIVQEF EYK  
 DGQVAIPQGP GLGVDVMDK VNFYTRK

> RXA01466 (1-822, translated) 274 residues  
 MTPNGRRQLL LERGAAFSKN RTPGLKHVDR HTIVDSGLS IHTYMGHAE NATATVVFIH  
 GFTLAAEVYY MQVDYLQTFY PNIKSVLIDA RGHGATGQIR PELCTIEGTA NDVLAAIHEH  
 APTGPLILVG HSLGGLTALN LVKRADHSLR KRIVGMVLVA TSIESLSTQG LPQVLASPLA  
 DNIKNAVEAA PND AQKFRQY ATTFLAPTLA TAVFQRDTND EVIDFHAAMI HETPLDTFVG  
 FFDDLQEHDE LDAAPTLEGL KGYVLAGELD DVTP

> RXA01477 (1-1548, translated) 516 residues  
 MPQLSRRQFL QTTAVTAGLA TFAGT PARAE ERQFQHGVAS GDPTATSAIL WTRLTPIPDA  
 TPGSGLGPDS PVTWEVSPTP DFASITRSGT VITSAASDHT VHAHATGLSP STRYFYRFIS

STGEVSPVGR TQTTSLVDAP LPHLRFALAS CANWEAGFFA AYGDIARRAD AGELEMLIFL  
 GDYIYEYATG MFAGKDGVR PHQPLHETIT LEHYRTRYGH YRSDNHLQAA HAALPWIVMW  
 DDHESANNSN REGAQNHSAD EGSWVDRQNA ARQVFLEWMP IRQEDTLYRS FTFGDLATLS  
 LLDLRSFRDP APSQQQWLEG QRADTMMSQ QFEWLKSNVE HTTTTWNIIG SSVMFAPMAI  
 TGQPLFQIPE PIPANLDQWD GYSRERDRLL AVLADFATPT LFLSGDIHSE WANAI RFNGR  
 EIGVEAVCSS ITSANVNDFA KLPEDNPVSL QAEQVIRANS SHVRHVDLDA HGYATVNLTO  
 DGAHMOVHRV ADLSLPDSEV APAIALEWKP GVGFTT

> RXA01498 (1-1563, translated) 521 residues

MIKRLPLGPL PKELHQTLDD LTANAQDAAK VEVIAPFTGE TLGFGFDGDE QDVEHAFALS  
 RAAQKKWVHT TAVERKKIFL KVHDLVLKNR ELLMDIVQLE TGKNRASAAD EVLDVAITTR  
 FYANNAGKFL NDKKRPGALP IITKNTQQYV PKGVVGQITP WNYPLTLGVS DAVPALLAGN  
 AVVAKPDLAT PFSCCLIMVHL LIEAGLPRDL MQVVTGPGDI VGGAIQAQCD FLMFTGSTAT  
 GRILGRMTGE RLVGFSAELG GKNPLIVAKD ADLDKVEAEL PQACFSNSGQ LCVSTERIYV  
 EEDVYEEVIA RFSKAAKAMS IGAGFEWKYE MGSLINHAQL DRVSTFVDQA KAAGATVLCG  
 GKSRPDIGPF FYEPTVLADV PEGTPLLTEE VFGPVVFIEK VATLEEAVDK ANGTPYGLNA  
 SVFGSSETGN LVAGQLEAGG IGINDGYAAT WASVSTPLGG MKQSGLGHRH GAEGITKYAE  
 IRNIAEQRWM SMRGPAPKMPR KVSSTVATA LKLGKIFKVL P

> RXA01499 (1-3822, translated) 1274 residues

LWDVLESVAS TYPEAAAIDD GQVLTAEELM EEVTALADSI HAQGIRRGDR IGIRMPGSTR  
 DLYIAILATL AAGAAYVPVD ADDPEERAEM VFGEANINAL FDATEGFHMLR PTAGGDTRRP  
 RLDDTAWIIF TSGSTGKPKG VAVSHRSAAA FVDAEAQMFL VDHPSGPLGP EDRVLAGLSV  
 AFDASCEEMW LAWGHGACL V PAPSRLVRS MDLGPWLIRR DISVSVTVPT LAGLWPAEAL  
 SQVRLIVGG EACSQELVER LSTPDREVWN TYGPTTEATV ACGTQLYAGQ PVGIGLPLAG  
 WDLVVDDAG EPVGIGEVGE LVIGGVGLAR YLDPEKDREK YAPLKSVGWT RAYRSGDHVR  
 LEEDGLYFVG RVDDQVKIGG RRIELGEVDA NVAALSNVRS SAVVVQTTGA DQKVLVAVVS  
 LEDAAAGFDH NVATARLTET MPAALVPRIH VMDDLPTTS GKVDKKSPLW PLPGTVVEAN  
 DLSATEAWIA QEWVDILGTS VSSKDADFFS LGGTSLAAAT LVGRVRKVP TAAVRDLYDH  
 PRLEKFAERV EAIAADTGIS LEAPNQVEER VVKPVSFGTR VMQTLIQIPI MTLQAAQWIA  
 WLLLGNNIMA ALDFDWAHVH SWWLIVIGMIL VFATPIGRPL IGGWGARIIT RGITPGSYPR  
 GGSTHLRIWS AERLADASGS RNISGATWVN YFARSLGVKM GKGVLDHSLP PITGLLTGN  
 NVSIEQEVLD RGYWLDGDIL RVGTIEVHDN ARIGARSTLL PGTVVGTGAH LLPGSTVTGD  
 KTIKPGSRWA GSPAQKVGRA KHRFPTSHPP RRSRWVPVFG ATSIIVLSLLP LQALAIGAAI  
 TLWLATISPL PLIWGVLFVA TVGALAAFFA YTVTIWVLVR LIQIGIKGGT APVRSRLGWQ  
 VWAVQRLMDD ARTYLFPLYA SQLTPLWFRS LGAKIGKDVE ISTAVMVPKL ADIREGAFLA  
 DDTLIGGYEL GNGWLLSGET RVGKRSEIGN SGIAGPERKL AKNSLVAVLS STPKKAKANS  
 NWWGSPPERM RRVTVVEVDEG EAKTYSPPFG VKFARGAVET ARLLAPITSG VLAALSLLL  
 QYLLTEFNMW ITWLLGGLIL MTGVGLAMGI TVVMKWVCVG KHKPSEHPLF SRFVWLNELQ  
 DAFVESVAGP WFLVPLNLTG ALNAGMSALG AHIGRGAWIE SYWLPETDLC YIGKGATVGP  
 GVVQTHLFQ DRVMSLDTVT VADGATLADH SVALPASLID ASATIGPGSL VMRGDKVPAH  
 TRWQGNPIEP WSNS

> RXA01502 (1-1233, translated) 411 residues

MSTPQSIVII GGGLAGAKTA EALRVNGYEG SITLIAAEDY LPYERPPLSK EYMAGKVGFD  
 KAIVHPAEWY KENNVTLRQG VRATAIDAGS RQVTVDDGGN TETINYDKLV LATGSAVRKL  
 PIPGADASN HYLRTVEDSD AIKATFGEK KLVLIGGGWI GLEVASAARG AGTDVTVLEG  
 GKLPLLKVLG ETVAQVFADL HVANGVDLRT EVKITDIVTE DGRAVGVRDL DGEVVPADAV  
 VIGIGVTPVI DLAETAGLEI DNGVLVDAAL RTSDPDYAV GDIANHDHPV LGHRIRVEHW  
 ATALNQPAAA VKSLLGKDAE FTNLPYFFTD QFDLGCEYVG HATGSQEKVF IRGNLETREF  
 VAFWVDTENR ILAAMNVNVW DVPDQIKPLI ASGKSVDTEK LVDPEVPYSE L

> RXA01509 (1-474, translated) 158 residues

MSIEVTVEIP KGSRNKYEID HETGKVYLDR YLFTPMAYPL DYGYIDHTLG EDGDPLDALV  
 ILPESVFPV VVKSRIIGVF KMTDEAGGDD KLLSVLDDPR YDHIQDISDV SDFLKDEIEH  
 FFFVHYKDLEK GKHVDGSGWG DKAEAEKIHA EAIDRYKA

> RXA01510 (1-1281, translated) 427 residues

MKNAWWVGSS VGVLIAGAV IGGGVWVNHG FGGLDHPEPM SVEMPEQLFS SAIDPDALVA  
 PDFATLEKDL TSQAADSRLG TFGVARDVE SGEVVWEQNG GTAVRPASAT KILTAAVALY  
 ELGREDTITT KVVEGEQPGT VVIKAGGDVT LSEEMLDDLA TQLEGQDIGT VLIDTSIWP



VATDPGFAPD IVSRVARIVE DELEGSNGWR ASIVTSNGAV IDDIAYDAPE LAPSVRISLD  
HNVQRAAEEA VDLRAEMKAM MVVMRPSTGE ILAVAQTDEA DKDGDVALMG QYPPGSTFKI  
ITAAAGLAHE GLTPDSIVPC PGTMNIYGRI VTNYNSFSLG NTSLDDAFAN SCNTTFADIF  
HHLEPGQLKN VAKQFGLGID YQIPGLDTMT GSVPEGDIVL DRTESGYGQG LDLASPFQMA  
LVASTAATGS VPTPTLISGH ETVASEEVLA LDPEVLANVQ RMMKSVVNDG TARGMRQTGG  
QIYAKTGEAE INEGSHAWFT GYREDDIAFA TLVVLGGGSE AAAAVTDQFF VKLDELRAAG  
EVAVSEAEQ PVG

> RXA01609 (1-873, translated) 291 residues  
MSKMRAPLVP GIPTPIREVP AHIERPEYVW KDEVQEAIGE PFVQAPEVIE KMRETSRIAA  
NSLKIAGEAV KPGVTTDELD RIVHEYTCDM GAYPSDLGYR GFTKSSCISL NEIVCHGIPD  
STVIEEGDIV NIDVTAFFKHG VHGDNCATFL AGDVSEEHLR LVERTEEAMM RSIRAAKPGR  
EINVIGRVIE SYAKRFGYNV VRDFTGHGIG PTFHNGLVVL HYDNTQYRDL LVPGMTLTIE  
PMINLGSIDY EIWEDDWTVO NVDRKFSAQF EHTIVITEDG NEILTLPDDS V

> RXA01620 (1-948, translated) 316 residues  
MQSIRTTFRS LRSRAVIVGT VLALGIAGCS TASDEATSTS DDVAVGGRLF STADSATAAL  
GSDAEPGQFP RTVVHSRGET TLEQQPQVRV VLDSGEIDQV LSLGVTPVGI ASPKDASSQP  
AYLENQLADV QTVGTTSELN FEAIAALKPD LILGSKLRVD ESYDQLSQIA PTVLSIRPGF  
PWKENFLLTA DALGLEKAV EVLNEYQTHV DAVRETIDGS PEISLVRFP GRTRLYGNLS  
FIGAILKDLG LSRPEIQNID DLAVEISPEN ITDANGDWIF YSTYGKPEAT EQDNILSNEL  
WHNLPRRPRR SCPGGQ

> RXA01640 (1-3318, translated) 1106 residues  
MFAPPEGDDT DEVRRTYLRH LGALRAKATD HAAMQRRHEW HRHPDPATLW STLGTRRMWE  
RTQDDQDCLE IRFGLGVTRL DPAINVSDSG APEDLDPVCA VSLRHTIRDV GSVQSMFVSV  
QLQAFRFIGL NGAGAHDLAR ALVVQLLYHH GPEVVGKAI GESGWEWLKW VPHTRDPEKA  
AFRILLVDSV LTNGTESFID DPQWTTIINV GAQTSTALGQ LAEDEGLLLH VDKRLHVATA  
HGAEELGTPD AVSAELAEVF GRRLTAFRRT TTAHAASSGE LLSLLGIDDV EHLTPETLWM  
NKRTQPKTRL AVPLGLNASG RPMVLDLKE AHGGMGPHGL CIGATGSGKS ELLRTLVLGL  
TITHSPEELN LVLVDFKGG TFLGFEQLPH TSAVITNLEE EPVLVERMHD AISGEMNRRQ  
EALRQAGGCA NVDEYNQRDG VKPMPALLIE SDEFSELLGQ HPDFADLFVA VGRLGRLSLHI  
HLLLASQRLE EGRLRGLDSH LSRYRGLKTF SASESRQVLG ITDAYQLPSQ PGAGFLKSDV  
DTVTRFQASY VSGPIMRRHH LAPTQSRVRL FTSWEEPKEE VIVEQSTETL IDAVVARAIS  
AAKLRLSAH RIWLPLPAE VSIGALADDV GELSAVIGMI DRPYQQRQDP LLIDFSLTGG  
SGHWAICGGP QTGKSTALRS IVISMAATHS TENIRFYVLD LSGTSLENLS RLPHVAGVAG  
RKDPEKVRV VDEVGRGLNH PEQRHTFLIV DGWHTITQEF DELFADFVDI AANGLASRVH  
LVLSTQRWSS IRPAVRDLVT GRIELKLGEA MDSVIDRKAQ LRIPSKPGRG LNLDEKHELI  
AHASGQDIAQ VCVMDAGQGW QQVPQLSVLP AHILLHELEL SATPGIPIAR GGAELSTLTW  
DPESRHLA FGSQGCCKSS LIRTIVTGLT IVGREKARLV FFDLRRTHLG LVPEDMLAAY  
CATSTAVHNT IKDMVATLSA RLPDPDITAQ ELRDRSWWQ PDIYLVIDDY DLLPAGTLHP  
LREIIPHARD VGLHIVLTRK AGGASRALYD PVMSEIKDQS PHVVLFDADR DEGAILGIKP  
TAQPPGRATM SIRGENIGVA QMAPHR

> RXA01653 (1-939, translated) 313 residues  
GSDLQASRGL LEDDAVQNN TSVFTDSSK VHAINHHGKY FDVPGIAITE PSVQRTPIY  
QAGASPRGLK FAGENAEAV INSSTVEAIT KTVAKIRAAA VAAGRDPHAV KIFAMQTIIT  
GETEADAQAK LEEYSRYIDP VGGLTLMGSG TGADLSQYDL DEPITNIESN AIQSTAATIS  
NGTGEGAWTV RKLGEATGIG GFGPVLVSG ANVAAELARI QDLSDVDGFN LAYAITPGTF  
EDVVDVFPVE LQKLSRYKTE YAPGSLRNKL LGKGDRLDDT HRGASYRLGA RNSTATIDLS  
SISAQLVSQG AHS

> RXA01654 (1-996, translated) 332 residues  
MSPSANAEEA PASEWNTTA IVDQANAQLS QFGVSLDRSA AELFDDQANS QIDAALSPYA  
DKVPTSGGQV VEQSLQVVEQ EVQKALPNYE IRTDLQSQVM GATLGEVLHR VPGSWFDAPA  
VPEESRIVEE QGKSLYGPPT PIYLNNGNSMC TLAVTGTDAD GRKIGITAGH CGKSGDAVRS  
ADSFVWGD TG TVVYNAPNAD YSVIEFGSNA ELSNTYNGVT ANAVGGGVN GQEVCKNGVA  
TGYTCGLVMT ADERMTMSQV CAGRGDGAP LIADGRVVGL VSGGVIPDYN LACATPLQGP  
FFMPTLSVNM DTVLTDLDSQ DLPGRGFQPT AG

> RXA01664 (1-822, translated) 274 residues

MTVLISPSTL AESIHAGKKQ TVLAAFWAPI EGAGRTVFCS EHIPTSIFCD PALELSGVPS  
 SEDGRNPLPP LNVLARSFRT WGLNTDREIV FYDQGRGLFA ARAWWILRWA GMPNVRILDG  
 GFQKWEDHEL GHAGGPGNFP HFCNVRPNPG QLSVATIEDV KAHQGILIDS RDEQRFAGRS  
 EKLDLKAGHI PGAININAKS LLEDDFTFKS PEEIRQIFAD KGVTSGENVI VYSGSGNHSS  
 QLLAGMEHAG LTGASHYFAG WSQWSANPEN PIEA

> RXA01668 (1-1716, translated) 572 residues  
 MSSFNPTTKT NEAMQAALQQ ASSAGNPDIR PAHLLAAILE QTDGVAAPVL MATGVDPKEI  
 LAEAKKLVAS YPKASGANMA NPNFNDRDALN AFTAAQELAG ELGDEYVSTE VLLAGIARGK  
 SDAADLLTNK GATYDAIKEA FPSVRGSQRV TTQDPEGQFQ ALEKYSTDLT KLAREGKIDP  
 VIGRDQEIRR VVQVLSRRTK NNPVLIGEPG VGKTAIVEGL ARRIVAGDVP ESLKGKTLIS  
 LDLGSMVAGA KYRGEFEERL KAVLDEIKGA NGEVVTFIDE LHTIVGAGAS GESAMDAGNM  
 IKPLLARGEI RLVGATTLENE YRKYIEKDAA LERRFQQVYV GEPTVEDAIG ILRGLKERYE  
 VHHGVRIQDS ALVAAAELSN RYITSRFLPD KAILDLVDEAA SRLRMEIDSS PQEIDELERI  
 VRRLEIEEMA LSKESSDAASK ERLEKLRSSEL ADEREKLSEL KARWQNEKTA IDDVREMKEE  
 LEALRSESDI AKRDGNYCRV AKLRYGRIPE LEKQIEDAES KVEVNENAML TEEVTPDTIA  
 DVVSAWTGIP AGKMMQGETE KLLNMERVLG NP

> RXA01691 (1-567, translated) 189 residues  
 MASQQIRYPF SAVVGQDELRL LALILTAISP RIGGVVIRGE KGTAKTITTVR AFAGLLGDAP  
 LVNPLPGSTE DRVVGSLNME TVLTTGRAEY QPGLLAQADG GVLYVDEVNL LADHLVDALL  
 DAAASGRVSI ERDGISHSSP ANFVLVGTMN PEEGELRPQL LDRFGLAVDV AASTNPEVRV  
 EIIRRRLLDF

> RXA01728 (1-975, translated) 325 residues  
 MADAVEREVF GYPDATGLN DALTGIFYERR YGFGPNPESV FAIPDVVRGL KLAIEHFTKP  
 GSAIIVPLPA YPPFIELPKV TGRQAIYIDA HEYDLKEIEK AFADGAGSLL FCNPHNPLGT  
 VFSEYIYREL TDIAAKYDAR IIVDEIHAPL VYEGTHVVAA GVSANAANTC ITITATSKAW  
 NTAGLKCAQI FFSNEADVKA WKNLSIDITRD GVSILGLIAA ETVYNEGEEF LDESIQILKD  
 NRDFAAAELE KLGKVKYAPD STYLMWLDFG GTKIEEAPSK ILREEGKVML NDGAFFGGFT  
 TCARLNFACS RETLEEGLRR IASVL

> RXA01795 (1-435, translated) 145 residues  
 VLIVGIRRDIT GFDFKHAPPT HGPRGDMPYK TAGEALKGVK DVPTNNNHMK IMPRTVEVLK  
 RIPEGENFTA IPKDDPYVVK GMISHVYRRL HRDEPSKTLI AGGGGGTGWY HYEKNRALTN  
 RERARIQSFP DDFEFLGSNT QVRRQ

> RXA01802 (1-831, translated) 277 residues  
 MGDQDIIGKE SKQMDFRLLA TDMGDTLLNT HHEVPEKFWI ILEQMRAGI AFAPASGRQL  
 ATLQKQFGHA GEPISYIAEN GTVVVHDGEI ISLTIDSDT VHSIIDAVRA SDIDMGVVVC  
 RPERAYVERN DEAFRAEGLK YYVSIEEVQD LHEAVNNEVI KVAIFTFQDA EKDCAPIIRA  
 ASPNANVVVS GQHWVDVMDP SANKGQALAA LRDALGLEES QTLVFGDYLN DTELIKAAGK  
 SYAMSNAHPD ILELADEIAP SNIEEGVIVV LEKLLNG

> RXA01828 (1-1422, translated) 474 residues  
 VNRSIRITSL FSLLLILVLV ANLTWIAFR DDDLAQNPLN ARGFLEAKST PRGQISTGGQ  
 VLAESSQDDQ GFYQRSYITN PTAYAPVVG Y LSDVYGAAGL ELGYNSILNG SDSSLFTSQW  
 LDVISGSPTH GANIELTLDP NAQQTAYEQL SQSGYEGAVV ALRPSTGEVL AMASSPSYDP  
 NQIVDPATAE DAWAEYTSTE GAPLLNHATQ ESLPPGSIFK IITTAALLEN GYSADSTVTA  
 EAAVTLPGTN TTLTNYGGQT CAGGGTTTTLL TAFQLSCNTA FVETGIDVGA DALRASAEDF  
 GVGQTYSLGL DNVPGLGELI PDDAALGQSS IGQRDVQMN V LQAAMMAGTV SNGGVRMEPY  
 LVSRVTGQDL SELSTHKPKS VGGVEPEIAE QLKTLMEASE RNTSGYTGIQ IASKTGTAEH  
 GDENTPPHTW YVAFNNDIAV AVLVKDGGGF GTSATGGQVA APIGRAVLQA AGGF

> RXA01829 (1-1323, translated) 441 residues  
 MNTLERLKL RTEMWLLILA TLVVSIMFIS LELAMGNELG THILMLMGY IGIFIVAHLA  
 MAWVAPFADQ IMLPVVAVLN GIGLVMIYRL DEATGYSTVN SQLMWTVVGV TLMVAVLLLL  
 RDKLSLSRYL LALPLVVGIVL LALPLVVGIVL LGVEARIWIW LGPFSIQPGE FSKILLLLFF  
 AQLLATKRAL FTVAGYRFLG MDFPRLRLDA PILVVWALAI LIMAGANDFG PALLLFTTVL  
 AMVYLATGRG SWLLIGAVLV AVGAFTVYQV SSKIQERVQN FVDPVAHYDT TGYQLSQSLF  
 GMSWGGITGT GIGQGYPNMI PVVHSDFFLA AIGEELGLIG LAIIIVLFGV FVTRGMRTAT

09603124-062300



> RXA01933 (1-603, translated) 201 residues  
 MSKTRTFLFD LYGVLKEHG AAQFERVARA VGEPSKNDKL HEVYESLRLD LDAGRVSEVN  
 YWNQIKLLVG LEFLDIQEV I AADYRGLYER DQDMVDYVLS LKAKGHRIGI LSNIPeGLAK  
 LLKEHNSEWL DQDAVTLSC DIGAAKPEPK SFHVALEALG EKAEDVTFID DRVRNIEAAR  
 EEGLSTIHFT GLDSLKESIQ E

> RXA01934 (1-558, translated) 186 residues  
 MTPQPLILPF GDKVPRIHES AWIAPNATII GDVEIGPDAS IFYGVVLRGD VNKITIGART  
 NVQDNCVLHV DGDAPCTLGD DVTVGHMALV HGATVGNGLT VGMKSALLSG SHVGAGALIA  
 AGAVVLEGHE IPAKALAAGV PAKVRRLDD AQSQSFIPHA GRYVETSKAQ ASIAEALS LD  
 EVRVRE

> RXA01967 (1-1143, translated) 381 residues  
 MRIQSPMEIS WSEAVREGGE HSARRCGDMA VSALAKPNPI IDDDPEGNPD VCMYTWIVEC  
 PGATAVLLWI NGVFDHERIE ESEMTRLEGS DLWILSLRMP SDWRASYTVN AWSGDGVAPW  
 REAGDRMHIR KAAMSGGRP SRAMGHIMDS SLVEGPDALP DCWVAASTSV KVVEETVAGE  
 HFWFYEAPVK APLLVLFDGQ HWNNMNLPA QVDAIAIGL LPPVSLLMID SVNTERRWDS  
 VGVPGGQVDV LIDALLPHVR ETYNVSARGE DTIVTGASFG GLASLWALAL SDGEVGHAI A  
 QSPSLWRFNV ADALSAAEQW SSIHLQAGKY EGEMLRLSHQ LAEDLSGDIR EVRVRGVHGG  
 HDWAWVRVHM LTELTRLLKT L

> RXA01971 (1-831, translated) 277 residues  
 MSKKKPRPIP VPAQFIPGLI DAHTHLASCG GDLAGLVERA KEAGVEKLCT VGDGLAEAE L  
 ALEAAQQFGN VFAACAIHPT KADQLDGAAR ARLTQMAADP NCVAIGETGL DSYWIKHDPE  
 DTAALDVQEE ALRWHIDLAI SADKPLMIHN READADLMRV LADAPPPKDT ILHCFSSPLD  
 VAKEALDRGY VLSFAGNVTF KRNEELREAA RIAPISQILI ETDAPYMTPE PFRGSRNEPS  
 LIGHTALCIA EVRGMAVEDV AAALNENFDR VYGVNTL

> RXA01993 (1-366, translated) 122 residues  
 AGTGAQDGDR SQGVNGYVMN TITPDSDRFS HYFWAFMRNY RLESQTITTQ LRDGVSGVFK  
 EDEMDLTAQQ DAIDANTDYE FYSLNIDAGG MWVRRILEEA LSKEGRDLIP TTFPRATPKP  
 EA

> RXA01994 (1-975, translated) 325 residues  
 MNSQWQDAHV VSSEIIAADI RRIELSPKFA IPVKPGEHLK IMVPLKTGQE KRSYSIVDAR  
 HDGSTLALSV LKTRNSRGGG EFMHTLRAGD TTVTSRPSQD FPLRVGAPEY VLVAGGIGIT  
 AIRSMASLLK KLGANYRIHF AARSLDAMAY KDELVAEHGD KLHLHLDSEG TTIDVPALIE  
 TLNPHTELYM CGPIRLMDAI RRAWNTRGLD PTNLRFETFG NSGWFSPEVF HIQVPGLGLH  
 ATVNKDESM L EALQKAGANM MFDCRKGECG LCQVRVLEVD GQVDHRDVFF SDRQKESDAK  
 ACACVSRVVS SPSSSPTSTI TVALS

> RXA01997 (1-390, translated) 130 residues  
 MTINEKIASA FNNQVTAELE ASMVYLQLSY VLDDLGLTGM RDWMKAQSKE ELEHAQKFAQ  
 HLLDRDYTPQ IGDIAPPKLD VTSATIAFEA SLAHEQKISG LIRELAAIQD AEKDYDSRAL  
 IDWFLNEQIE

> RXA02000 (1-504, translated) 168 residues  
 MKVTQSTFLK SVAAFTVAAL TLTISSCSSG EDTASASSTDT ENSSTQAAAS PPLAPCELPA  
 DASAEVEEG THTGEDISVA PEIGTGYREG MTPVQTQGYA VATANPIASE AACAVLREGG  
 TAADALVTAQ FVLGLTEPQS SGLGGGGYIL YYDAEANAVT AIDGRETA

> RXA02010 (1-447, translated) 149 residues  
 MVFTLADSVS QVALGPSWLD PMELLSGSGP FGSFILPAML AIVFIESGLL FPLLPGDSL L  
 FTGGLLANQA DPFAPLWLVL ILCPIAAILG DQVGYWIGHK FHPRLVNRPD GRIFKQEYLK  
 QTEDFFEKHG PVTIILCRFV PIVRTYAPL

> RXA02012 (1-669, translated) 223 residues  
 FTMTLSERKL TTTAKILPHP LNAWYVAWD YEVTSKKPMA RTIANKPLAL YRTKDGRAVA  
 LADACWHRLA PLSKGKLVGT DGIQCPYHGL EYNSAGRCMK MPAQETLNPS AAVNSYPVVE  
 AHRFVWVWL G DPTLADPTQV PDMHQMSHPE WAGDGRTISA DCNYQLVLDN LMDLTHQEFV  
 HSSSIGQDEL SESEFVVTHT EDSVTVTRWM HDIDAPPFWQ KNM

> RXA02016 (1-777, translated) 259 residues  
 MSNFETFLWV AYPWLCIAAY IIGISWRWRA DQFGWTHSS QIYESKLLRI ASPLFHWGMV  
 FVVIHLMGL AIPKSWTQAV GISDAAYHLI ATIPGTIAGI AAVLGLIGLI IRRVINKTVF  
 LSTSRSDKVM YVLLGAAILS GFIA TVSTQV FGGAHGYDYR ETISPWVRQL LIFNAQPELM  
 ADVPWEFKVH IVAGFTLIAL WPFTRLVHAF SAPVGYVTRP YVVYRTRDTT SEPARQNVAV  
 EPIRSVKNQL DNDSKWHGA

> RXA02017 (1-684, translated) 228 residues  
 MRHTGKIPD HFVPRISMTE EQRRVVFMLN SLLLDYPEEG FVDKLNAVEA QLDVLPLPVA  
 AHVVEFLDAA RVAGLRAMQE AYVETFDQRR RCSLFLTYYA VGDTRQRGTA ILTFRQTLQQ  
 LGFESERDEL PDHLCVVLEA AALADSSLFD AATQVLSAHR DGIEVLRAAL DNLDSPYRYL  
 IMSLCQALPE IDEETANSYM ELIRSGPPAE MVGIGTPLPF PTSQPDIIH

> RXA02018 (1-1050, translated) 350 residues  
 RICEHCLNPT CVSSCPGAM YKRAEDGIVL VDQDQCRGWR MCVSGCPYKK VYFNHKS GKA  
 EKCTLCPRL EVGQPTVCSE TCVGRLRYLG VLLYDADRVA EVAATPDEKD LFEAQKTLFL  
 DPHDPQVIAD AQRNGIPHSW LEAAQNSPIY DLIFKYEVAL PLHPEYRTL P MVWYIPPLSP  
 IVDEV TASGN DGEDHKILLT ALSTMRIPL YLAGLFTAGD TRPVEKSLRR LAAMRSYMRD  
 ISLGREPQEE IAEAVGMTGK VVQEMYRILA IAKYDDRYVI PTASPETPRG ISSLDPFPGDV  
 DPARATEQLN IGLGEGAPEA CGTGAPSGKV SLTSWNVGER PAAMFPPRKD

> RXA02048 (1-1374, translated) 458 residues  
 MRRLRSTPVP GTRDSYTGID FNLGFHIRRY ELDLTYRVAP NLLMGATLH MDNYRALDAL  
 TLDLGGSLRV EKVTAKGTAG THIQVARFRH AGRKL RITFR NQIPVDQEF S LTIRYRGNPR  
 PLRSEWGMIG WEELDNGALV AAQPNGAPSW FPCDDTPDEK ALFDVHFHTD NGYAAIITGD  
 LISKHVSGSM TTWHYQSREP MATYLA AVHV GEYD TVSLGV SESGVVVEAY VPVGDAALRA  
 RILEDFAKQV DMLDAYEKL F GPYPFRSYRV VITEDELEIP LEAQGLSSFG ANHATGEGTW  
 ERLIAHEL SH QWFGNSLGLA QWNDIWLNEG FACYA EWLWF EAAGVKSAAE SALEFYRGLE  
 ALPKDILLAN PGAKDMFDDR VYKRGALT VH ALRELLGDDA FFKAVRSYVA EGRHGLVEPR  
 DLKRHL YAVS TDHAALDAVW QSWLRDLELP EFPSGGLD

> RXA02052 (1-792, translated) 264 residues  
 MGTTEIPETP TRVVVIDSPH LDALLALGIT PVGATESGSE NGFPAYLADE LKDTESVGLT  
 SEP NLEKIAA LDPDLIIGAK VRHEAIYDQL SDIAPTVMSE GSGTNWNEQA EITAAAVNKS  
 DEMDKLISDL DTRATELGEE IGADGQTASM VRFRD NFR L YGPETFGSV LEQVGF DLGE  
 RDWNEYSMME LSSENFGQID GDLIFYTIPG SPEATTYPKI SELWVDSPAV RQGRTYEFED  
 ETW MVGIGVL GANEILDDLE ETL S

> RXA02064 (1-639, translated) 213 residues  
 VSNAFEYLRT YVESTTETDA AVARAREDAE EFGLPAPDEM TGQLLTTLAA TTNGNGSTGA  
 IAITPAAGLV GLYILNGLAD NTTLTCIDPE SEHQ RQAKAL FREAGYSPSR VRFLLSRPLD  
 VMSRLANDSY QLVFGQVSPM DLKALVDAW PLLRRGGALV LADALLDGTI ADQTRKDRDT  
 QAARDADEYI RSIEGAHVAR LPLGAGLTVV TKA

> RXA02083 (1-1410, translated) 470 residues  
 MEMVMKNKRV AIIGAGPSGI AQLRAFESAE KQGHEIPELV CFEKQDTWGG QWNYSWRTGT  
 DSYGEPVHSS MYRNLWSNGP KEVLEFAEYS FDEHFGKPIS SYPPREVLWD YIAGRAKKS N  
 VEKYIKFAHV VRWVSFDEAT KLFTVTVENL RTGETSSDTY DNVIVGAGHF SFPNVPHFDG  
 VETFPQIMH AHEFRGA EAV ADKDILLIGA SYSAEDIGTQ AYKMGARSVT FSYRSNPMGY  
 EWPEEMTELP LVERFDGSEV HFVNGEKRKV DIVVFCTGYL HHYPFMPSEL TLSSPNNLYP  
 DTLYRGVVSE ANNQLFWLGA QDQWLTFNMF DAQAWYVRDV ILGRVALPSK EAQRNHMDKW  
 LSRFEG LKSE NDQIDFQCDY VEDLIDQTDY PSFDLKEVAN ILKGWVKSKE EDILNYRDYT  
 YTSVMTGTTS VEHTPWMI E LDDSLERYLS EPQEDEARQV YRGKKVRDKA

> RXA02092 (1-1638, translated) 546 residues  
 MANSAAGSVL ADEMVPST T GFVKG VKGPG LKTRGIPYG RNTGGKYRFR APRPAKKWDG  
 VRDCSMFGEV ASQPTYSWTD KIRGSEDCLN LDVVRPDSEE KLPVVVYLHG GSFIMGSSSE  
 KALRGYNLVT NMNVVYVS VN FRLGALGYLD LRSVGEDCVA NPALHDQLLA LQWVSRNIKA  
 FGGDPDNVTL MGESAGAAV VALMCVPAAG GLFHRAIAQS APVISVHSST QAKFWARELI  
 YRMALPRETT LDEL RQESAD DLVRAGQSMW WRS GELLQLN SCYGPTVDGS LLPEHPLTMF



EQGRQHRIPF MIGTNNGETS FSKAFYLRSS ARRRSALRML SVYDPHNAER VVSAYGGGEA  
RTDFSELLAD ALFWAPSVRL AQSHASQDED TWMYRFDYAP QSMRKLGLGA IHSFELNAVF  
GDHESSRSMN LAKIAGGMDH LDKVTELVQE HWKQFIYFGR PGEWKAYRG RSDTEPGRAT  
FVIDINSRIA WDPKQDKRTA WENYDMLEWG TGRPDLANEL DFIEPEETEE EQQLKWLSLM  
QFFGSR

> RXA02098 (1-1746, translated) 582 residues  
MDATFWIIGL VVLVVLAIIL VLVGNQRGK SKTVSFEKPE ENKKELTQQE KSGNYQAQGG  
FNFAPAKQTE EPVLREGQDL GAPKAETTPV VPPVVIIPAA PEEKAPEQS TETFAAQKPA  
EEAPATPEPE TSDDVVEEPE VKEPEVKEVV AVEPEVETEE PAVVEEPAVA EEPAlVEEPA  
VAEEPAAVEE PAAVEEPAIV EEPAAVEEPA VVEEPAVAEV PETIEEPAVE ELAAVAEVE  
AAEAAQVAVE SAAEALEETP VPDVEPEPAA EPIDEIVPAA GRIGKLRGRL SRSQSVFGKS  
VLGILSAGDL DEDAWEDIEA MLIKADLGAK ITARVVDELK DKIAEHGVGS EAEARAMLRA  
SLIDACRPDL DRSIKAMPYE GKPPVVLVVG VNGTGKTTTT GKLARVLVSM GHKVLGAAD  
TFRAAAADQL ETWGRRVGAE TVRGAEGADP ASIAFDAVAK GVERQADVVL VDTAGRLHTS  
TGLMDQLGKV KRVVEKKAVV DEVLLVLDAT VGQNGMQQAR IFREVVDITG VVLTKLDGTA  
KGGIVFQVQE ELGVPVKLVG LGEGADDLAP FEVEGFVDAL LG

> RXA02101 (1-1263, translated) 421 residues  
MSRISELLNN HGVDLSWQEA AYQDFHEHPE LSGFESETAD RIQKYLERFD CEVIPNVGGY  
GILAVFRNGS TDPGAPVALM RADFDGLPVK EITGVPFFAST RMRPHDGANV HVMHACGHV  
HVTALLGACA ILDERDAWE GTFIALFQPS EENSQGANM VAGGLVDLIP RPDVCFGQHV  
VPGAAGTVMS MPGGALAACD SIEIRIQGRS AHGSMPHNSI DPTYVAAMIV VRLQGIVGRE  
VSPEDFAVIS VGTLSQGNNT NTIPASARLV LNCRFYNDKV KHKVYRAIER VVRGECLASG  
IEEEPVIEWYF AHGDLTNNTP VVFDTVRPVF DDVFGEDSID AYRWASEDF PSIPKAFNSP  
YLYWTIGVTP RDQWTEAVER DRVASDV PAN HMGDFLPDYA PTMSAATRAA AAALLTYLGT  
N

> RXA02105 (1-291, translated) 97 residues  
MVGITISTYIA FNGNTTEALK HWQEVFGGEL NLLTYGQLTL EGMPFDPPAD ALAHGVLTLD  
NGGLISGSDS FEGLMLVKDT AYSMLYNAES VEDGRAR

> RXA02111 (1-1284, translated) 428 residues  
MTTSITPSVN LALKNANSCN SELKDGPFWL DQPGMPDVYG PGASQNDPIP AHAPRQQVLP  
EEYQRASDDE LHRRIREAKD TLGDKVVILG HFYQRDEVIQ HADFGDSFQ LARAAKTRPE  
AEAIVFCGVH FMAETADLLS TDEQSVILPN LAAGCSMADM ADLDSVEDCW EQLTSIYGDD  
TLIPVTYMN SAAALKG FVGE HGGIVCTSSN ARSVLEWAFE RGQVLFPPD QHLGRNTAKA  
MGIGIDQMPL WNPKNPLGGN TVSELENKAV LLWHGFCSVH KRFTVEQINK ARAEYPDVHV  
IVHPESPMPV VDAADSSGST DFIVKAIQAA PAGSTFAIGT EINLVQRLAA QYPQHTIFCL  
DPVICPCSTM YRIHPGYLAW ALEELVAGNV INQISVSES AAPARVALER MLSVVPAAV  
TPSSSKDA

> RXA02118 (1-342, translated) 114 residues  
MSDQLAPCPE CSSEYTYENG GVLVCPMAH EWVEGEVAEE TATVIKDSVG NILNDGDSVS  
IVKSLKVKGG GAIKIGTKVS GIRLLEEPVD GHDIDAKVPG FGQMRKSSV VKKA

> RXA02120 (1-762, translated) 254 residues  
MSDLKSLATK FASDHESGKL LVLPTVWDTW SAGLVEEAGF SGLTIGSHPV ADATGSSDGE  
NMNFADYMAV VKKITSAVSI PVSVDVESGY GLSPADLIAQ ILEAGAVGIN VEDVVHSEGK  
RVREAQEHAD YIAAARQAAD VAGVDVING RTDAVKLGAD VFEDPMVEAI KRIKLMEQAG  
ARSVPVGLS TAEQVERLVD AVSVPVNITA HPVDGHGAGD LATLAGLGVR RVTFGLWQK  
WLAATSAQQL KGWA

> RXA02126 (1-321, translated) 107 residues  
MGQKVTAGRD ILGEFAPKSA ELNDDVLFGQ VWSRESELSP RDRSIVIVTM LMASGVLD SA  
FESHVQRAKD NGVTAEIEIAE IITHVAFYAG WPKAWAAFR I AKDIYTK

> RXA02192 (1-522, translated) 174 residues  
IPDIGFGVFQ TPPDETRNSV NAALEAGYRH IDTAAAYGNE REVGEAIAAS GIGRDEITIE  
TKIWNVDYGF EETLHAFDKA TGKLGVDTL D ILILHQAVPS SFDRTIAAYK ALEKLLFDGA  
VRAIGVSNFM PEHLDKLLE TSIVPALNQI ECHPYFQQRD VLARNEQLGI LTQA

> RXA02214 (1-609, translated) 203 residues  
MSPTVLPATQ ADFPKIVDVL VEAFAANDPAF LRWIPQPDPG SAKLRALFEL QIEKQYAVAG  
NIDVARDSEG EIVGVALWDR PDGNHSAKDQ AAMLPRLVSI FGIKAAHVAW TDLSSARFHP  
KFPHWLYLTV ATSSSARGTD VGSALLNHGI ARAADEAIYL EATPTRAACL YNRLGFVPLG  
YIPSDDDGTP ELAMWKPPAM PTV

> RXA02215 (1-867, translated) 289 residues  
AQELLVKLLP HSGNALRIGI TGVPGVGKST FIEAFGLHLI EQGHKVAVVA IDPSSTKTRG  
SILGDKTRMS KLSNAENAFI RSPSPAGTLG GVAKATREAM VVFEAAGYDI IIVETVGVGQ  
SEVAVSHMVD IFTFLALSGA GDQLQGIKKG VLEMAELVAI NKADGPNEKP AKRAARDLAS  
ALRMVRSPE LWHPPTITMS AVEGTGVDTF WHHVQNHHT MVEAGEFDRR RRDQQVGWTW  
SMVHETIRMR LENDPGVQVV SQDMERALRK GSTTPTLAAQ NILEAFDKA

> RXA02264 (1-120, translated) 40 residues  
MIPGEYILSS ESLTGNVGRE AKTIEIINTG DRPVQIGSHF

> RXA02265 (1-300, translated) 100 residues  
LHITPREQEK LMIVVAADLA RRRKDRGLKL NHPEAVALIT YELIEGARDG RTVADLMSWG  
STILTRDDVL EGIPEMIPDI QVEATFDDGT KLVTVHNPIR

> RXA02274 (1-1602, translated) 534 residues  
YAAIGEEVAF GGGKVIRDM GQNGTLVRDV DIPDTVITNV IVLDYTGVIK ADVALRDGKI  
FRIGKAGNPV VMENVDIVIG VATDIIAGEG KILTAGGIDT HVHFLGTDQV NTALASGITT  
MIGGGTGPSQ ASMATTVTPG QWNTYNMLSA FEGMPMNFGI LGKGHGSSKS PLAEQVRAGA  
IGLKIHEWDG ATPSSINTAL EVADDMDIQV ALHSDTLNEA GFVEDTIEAI AGRVIHTFHT  
EGAGGGHAPD LIRVAALPNV LPASTNPTLP YTRNTVEEHL DMVMVAHHLN PDIPEDVAFA  
DSRIRAETIA AEDVLHDMGI FSITSSDSQA MGRVGETITR TWQVADHMKR TRGSLTGDAF  
YNDNNRLRRF IAKYTINPAI AHGVDYVVRV VEEGKFADLV LWDPKFFGVK PDLVIKGGGLM  
VNSLMGDSNG SIPTPQPTL RNTWGAFGQA VSRSSITFLS QDAIDANVPD LLNLRKQIRG  
VRGVRNLTKR DMKLNAMPD IRVDPETYQV FVNGELITSK PAETVPMARR YFLF

> RXA02275 (1-471, translated) 157 residues  
MIITAIDTNI YDEPEFVEGR DVIGVRFEDL VLDKRIQVA LPGGEELGLR LNHGHPILRE  
GDVLKADDKT VVFVEIIPD VLVITPSDIH QMGFVAHSLG NRHLPAQFSK PGELTEKAAM  
IVQYDHTVVS FLDEHGIEYQ RTELVPPIPF RHSGHTH

> RXA02276 (1-678, translated) 226 residues  
MDLDADFLLL HLSDSALPTG AFAHSFGFET YMDAERITNA EEFQDWLKV LKVQLTSSDA  
LAMRMFYATP TVSELKRLDE RLFAGTPARE IREANARMGT RMAEIVAETY SVPLIVEYLE  
LIQHRELSGH PALALALATH SAGIDVDRAI HAHLTATVSS LIQNAVRGIP LGQMAGQVRM  
FAMREHIGAA VKRSANLDEI DFCSGDPGLD ISQMVHETQR ARLFMS

> RXA02277 (1-615, translated) 205 residues  
MGPIRIGVGG PVGAGKTQLV ERITRALIDE VSMMAITNDI YTIEDAKILA ANGVLPPEERI  
VGIETGGCPH TAIREDTSMN DAAIKDLVER FPDLELIFVE SGGDNLSATF SPELVDFSII  
IIDVAQGEKI PRKAGQGMK SDLFINKTD LAPYVGANLD VMVEDAKAFR KNKPFCLTNL  
RTDDGLDKVL EWIRHEVMMQ DLQEA

> RXA02278 (1-849, translated) 283 residues  
MTQTQPVGTL RLTIDDQGPQ QQSRAVEQFH QGALRVIRPH YLDDSGQVCY TIIAIGGGYL  
GGDVYEQQFT IKDNAKALIT TQSATKIYRT PQGPATQHT E INVGENAVLE YLADQTIAYR  
EATYHQFTKV ALHPSATFVM SEQITPGWHP DGKHFAYDEM RLHTEITDST TGRLVLLDNL  
LLRPDSREGS FGWTEQYTHS QQMIVMGEGV DKQLVAELNE QLAHPDVYQ AVNFLSAPGT  
LLRGFIARTL SNRTEELINL HEHIASLLRG RWRGQEPVNL RKY

> RXA02316 (1-1014, translated) 338 residues  
MSTPTVDEIL ERAHVSLPM RVKFRGVTT EALLIEGPAG WGEFAPFLEY DPQESASWLK  
SGIEAAWEGF PAPLRDRVEV NATIPAVPAD QVAEVLDRFP GCRTIKVKVA EPGQTLADDI  
ARVAAAAREAR PGAIIRVDAN CGWSVEQAVE AAQALAPLDY LEQPCATVEE LAEVRMTVQR  
RGLFVRVAAD ESIRKSDDPY RVADLRAADV AVVKVAPLGG VKRVLEVQVH LRARTMDITV

ASALDTVVGVM NAGLAAVAAL PKLDDDDLLID VPPAAAGLAT SQLFLEDVAT PHAITDGFME  
TRVIAPEMDR LETLAASKDR RDWWFERVRE SYPYLETI

> RXA02317 (1-612, translated) 204 residues  
MAHMRLLLTG FGHDDHDFV RGTVAYIPDA TRLFADSPEA APFMETERNM LREHGLSIRE  
LPISTSTPEE VDRVLGEVDG VYVAGGETFD LMWLLRSTGN DEVLIKHVRA GLPYIGTSAG  
AVIAGPSIEP ISFLDSPDVA PNLSYDSGLG LCEHVVPVPA GGTIPQFPID VFAETVRTYG  
AEFPLVLLKD GQALLIDDHG VHLI

> RXA02334 (1-354, translated) 118 residues  
GVLPDWMSTA TQPSNTGVLR GEHIPGAINL DWSDAVLPNG NFRTRAELDK LYADLNPADD  
TVVYCQVGDR AAHTWFVLKY LLGFNNVRNY DGSWAEGWGM VRMPIETGEN TKNNVSVS

> RXA02351 (1-939, translated) 313 residues  
VEGSVEKLGL ISWHEELART AERKGLDAVF LADGQAINPV GLENGPGWFL EPVTALTAMA  
RATNNIGLIS TISSTFWQPF HAARMIASLD HISGGRAGIN VVTSMTDAEA RNHGMDALPG  
HDVRYARAAE FIETITALWD SWPAESLVMG RAGKFADSSL IKSIDHDGEF FQVAGPLNIP  
SPPQGRPVLF QAGSSPQGRE IAAKYAEAIY SVAWDLEQAQ DYRSDIHARA TAQGREPMPV  
LPGLVTFVGT TVEEARAKQQ ALNALLPVKD SLNQLSFFVG QDCSTWDLDA PPPPLPPLEE  
FSGPKGRYET VLR

> RXA02410 (1-666, translated) 222 residues  
MDMGPVGLAA VQEIQDPADA HVIFSHLHTD HCADFASLMV WRRFHPTLAA KSRNLLFGPE  
DTPNRLGRLS SDEPDGVDDM SDTFAFDWE ERKPELIDNF TVTPFRVVHP IETYALRVEE  
HRTGASITYS GDSAYTEALI DAARNVDIFL CEATWGTSCD DKAPGMHMCQ QDAGRIAAAA  
GVKKLIITHV PPWIDAEATV AAAAEHFDGP IELARSGMVI EF

> RXA02411 (1-849, translated) 283 residues  
MATVTDFSGS MIERPVPGAD APIGIFDSGV GGLTVARTII DQLPHESVIY IGDTANGPYG  
PLPIAKVREH AIRIADELVE RGCKMIVIAE NTASAAFLRD ARERYSVPVV EVILPAVRRR  
VASTRNGKVG VIGTVGTINS GAYQDLFSAS PSIVVNAVAC PRFVDFVERG ITSGRQILNI  
AQDYLEPLQA EGVDTLVLCG THYPLLSGVI QLAMGDHVS L VSSAEETAKD VLRILSQQDL  
LADPDMHPEP SYSFESTGDP EIFAQLSRRF LGPIVSQVRQ NEG

> RXA02448 (1-1089, translated) 363 residues  
VNNSLAFNHD TLPQKVMFGY GKSSAFLKQE VERRGSAKVM VIAGEREMSI AHKVASEIEV  
AIWHDEVVMH VPPIEAERAR AVATDNEIDL LVCVGGGSI GLAKAIAMTT ALPIVAIPTT  
YAGSEATNVW GLTEAARKTT GVDLKVLPET VIYDSELTMS LPVEMSVASG LNLHAHCIDS  
LWGNADPIN AVLAAGIRA LNQGLPKIVA NPHSIEGRDE ALYGAYLAAY SFASAGSGLH  
HKICHTLGGT FNLPHAQTHA TVLPYVLAFA AGDAPEAERR AAAAFGTDTA LEGLQRLRLS  
VNAPKRLSDY GFEASGIAEA VDVTLKVPV NNPRPVTREN LSRLLAALN GEDPAVLSAV  
LSN

> RXA02449 (1-903, translated) 301 residues  
MTTTTADHNI SAQQKAVEEN LVNRVLQSFD ACENPRLKQL MESLVVHLHD FIRDVRLTED  
EWNYAIDFLT AVGHITDDKR QEFVLLSDDL GASMQTIAVN NEAYENSTEA TVFGPFFLDD  
APEVELGGDI AGGAQQQAAY IEGTVTDTEG NPVPNARIEV WECEDEGLYD VQYADERMAG  
RAYMHTDANG DYRFWGLTPV PYPIPHDGPV GNMLKAVGRS PVRCAHLHFM VTAPELRTL  
THIFVEGDPQ LEIGDSVFGV KDSLIIKFEE QAPGTPTPDG RDLGDQTPAR TRFDIVLAPG  
A

> RXA02470 (1-981, translated) 327 residues  
MFERFTDRAR RVIVLAQEEA RMLNHNHIGT EHILLGLIHE GEGVAAKALE SMGISLDAVR  
QEVEEIIQGQ SQPTTGHIPI TPRAKKVLEL SLREGLQMGH KYIGTEFLLL GLIREGEGVA  
AQVLVKLGAD LPRVRQQVIQ LLSGYEGGQG GSPEGGQAGP TGGDAVGAGA APGGRPSSGS  
PGERSTSLVL DQFGRNLTQA AKDGKLDPVV GRDKIEIERIM QVLSRRTKNN PVLIGEPGVG  
KTAVVEGLAL DIVNGKVPET LKDKQVYSLD LGSLVAGSRY RGDFFERLKK VLKEINQRGD  
IILFIDEIHT LVGAGAARRR NRRCLPA

> RXA02471 (1-1833, translated) 611 residues  
VQHEGAIDAA SLLKPKLARG ELQTIGATTL DEYRKHIEKD AALERRFQPV QVPEPSVDLT

VEILKGLRDR YEAHHRVSIT DGALTAQAQL ADYINDRFL PDKAVDLIDE AGARMRIKRM  
TAPSSLREVD ERIADVRREK EAAIDAQDFE KAAGLRDKER KLGEERSEKE KQWRSGDLED  
IAEVGEEQIA EVLANWTGIP VFKLTEAESS RLLNMEEELH KRIIGQDEAV KAVSRAIRRT  
RAGLKDPKRP SGSFIFAGPS GVGKTELSKA LAGFLFGDDD SLIQIDMGEF HDRFTASRLF  
GAPPGYVGYE EGGQLTEKVR RKPFSVVLFD EIEKAHKEIY NTLLQVLEDG RLTDGQGRIV  
DFKNTVLIFT SNLGTADISK AVGLGFSGSS ETDSDAQYDR MKNKVHDELK KHFRPEFLNR  
IDEIVVFHQL TKDQIVQMVD LLIGRVSNAL AEKDMSIELT EKAKDLLANR GFDPVLGARP  
LRRTIQREIE DQMSEKILFG EIGAGEIVTV DVEGWDGESK DTDRAKFTFT PRPKPMPEGK  
FSEISVEAAE AIQDVDSAAD GDVPETDSLS DIDLETLEKF EEDVENGTDI DQVSGDYGT  
DDQGGTAPSK E

> RXA02477 (1-621, translated) 207 residues  
MPLRNVDRTP PAVWEALLAG NERFISFNE RPNQDAPRRR ELRNGQTPAA VVISCSDSRV  
PVEIIFDVGL GDLFVVRTAG EILDQAVLAS IEYATESIGV PLVIVMGHES CGAVAATAAA  
LEGGALPGGY QRVLVEKVAP SILEAKAEGE SSIKEFEEHH VVATVNQLLS RSPEIHQKVE  
TGELGIIGLR YRLSDGRTEP VISKNVG

> RXA02497 (1-927, translated) 309 residues  
VRLGVLDVGS NTVHLVAVDA RPPGHPTFMS NWRTPLRLVE LLDDSGAISE KGINKLTSV  
GEAADLAKTL GCAELMPFAT SAVRSATNSE AVLDHVEKET GVRLSILSGE DEARQTFLLAV  
RRWYGSAGR ITNLDIGGGS LELSSGTDES PDLAFSLDLG AGR LTHNWF DTPPARKKIN  
LLRDYIDAEI AEPARQMRTL GPARLAVGTS KTFRTLARLT GAAPSSAGPH VTRTLTAPGL  
RQLIAFISRM TAADRAELEG ISSDRSHQIV AGALVAEAM RALDIDKVEI CPWALREGVI  
LTRIDKGLE

> RXA02513 (1-732, translated) 244 residues  
MLPIWMGLPF KKAGALSRRK AVFSALGADA LMGAALPTIP TAQAQTPTGY GF DATASISE  
EPEFSTQQLA DGGTLGFDCY RIPS LGVAPN GNVLASWDGR PNNCSDAPQP NSIVGKVSTD  
NGATWGEQHD ISAGITAEPK TGYS DPSIVV DWERGDVFNH HVKSFDAGYF TSQPGTDPDD  
RNVAVHAYAK SSDNGSTWVA DTVITDQVVA HDTWDSRFAT SGNGIQLQYG AYKGRVLQPS  
VTRM

> RXA02526 (1-1206, translated) 402 residues  
VITEDDAAQI NQAAVLSNID REKLWEDAKN VGYPIGLVR QIASHLPEGP NGRVHYGATT  
QVIMDTGLVL QMTASLNALD KQIVRLGNAL AARAEHKDT VMPGRTHAQO AIPTTFGATL  
ATFLDQIRRO RERLEEALER VRVISLFGAG GNNAAQGEQA ATVRAEMARL LDLKDPVVS  
HVERDVLGDF GWVCSTLCGS MAKFGRNIVD LSRTEIGEVF EPYNSHRGAS SMMPQKVNPI  
SSELMIGISV VAGALTSTLP RLQESGHERA AGEWQGEWLV IPTLANLAGA ALDEAIVVAE  
GMRVDTDRMS SNLAFAGGLI MAEAQMIQLA PALGREKAHD LVYEASTKTR EEHTTLAEEL  
PIIAVQHGV E DLLPKNFAPQ ADYVGEAQSM VNAAVAAWNA QL

> RXA02530 (1-450, translated) 150 residues  
MNRPDPKTPA GTLVAGYYGA YENEFSAFV RPVKVSRVEP TSEDPSSPLR VSSDDGREWI  
TRMVLNATGT WTNPYVPYIP GIDKFQKQL HTVNYRKAED FKGKVLVVG GGLSAVQFLL  
ELEGLAETTW ATRRPRTYAA RVRRLGHCG

> RXA02531 (1-711, translated) 237 residues  
MKIPLYMAEE AAALNLLADG RLALGVSRGS PEPAEKGWEA FG YDGGDDPK AAGMAREKFL  
RFLDAIDGRP MSIASENQYP RLYHPGTPLP IFPHDLDLGK SIWWGAGSHN TAEQAARDGV  
NLMSSTLVAE ATGQSFGDLQ ADQIAFYRQA WKEAGHDWTP RVSVSRSIFP IVTDRDRELF  
GLQGQGGDQV GILDDTRSTF GRSYAGSPDE LIDQLQGRQS CDGSRHLDAH RPQPNGC

> RXA02535 (1-1155, translated) 385 residues  
VTPRPVSSVA RLVEDNAQDF LRAVQAKLLT LAPQARGHFP TADDATHISI AEMVSALLEG  
TGEKGVDK TLEFFKEAAL DARRFGLTPE MHSALGEAVR SELSLCEDL PFENVLFAER  
AIAATTAVSV EAVREADEAH IPASYQAEIV EVEKRSRFT VVRMQAETQL PYLPGQYLAA  
TADFLPNTWR YLCPSIPTNE WGQVEFHQS DADDIAGLLA TTRLGDKWRL GPGRGDFGQS  
KISSGNDLFI AHGTGLAPL RAYMFELMNQ AAPRLHFFV GADYPGELEYE LTGMWNFAAA  
SPWLSVVPVS THDKDAWWQ ATEASQPPRG LHLHQTGSM KIVTEAGAWA DRDVLIAGPE  
SWARDVRRAM IRRGTPAQOI EILGF

> RXA02548 (1-291, translated) 97 residues  
PPIYFSDHRE VFERDGMWLT AGEWGGPKKG EEIVTKTVRY RTVGDMSCGT AVLSEARTID  
DVIEEIIATST LTERGATRAD DRLSESAMED RKKEGYF

> RXA02558 (1-975, translated) 325 residues  
MSTIEERTPG AVATEPVGHE GARVSINEKN VWSLGAGPAA FALLAMIVLM IASGVFFAQS  
INTLENDGGG TLAVTGLIAS IVVFTVALVV TITSVKVVSP GHTLTVQFFG RYIGTLRRTG  
LSFVPPPLSVT KKVSVRVRNF ETNEAKVNDY NGNPINIAAI IVWQVADTAQ ASFSVEDFEE  
FLHQQAESAL RHVATQHPYD SPVDGRVSLR GATDEVSEEL ADEVAQRAAV AGLEIVEARI  
SSLSYAPEIA QAMLQRQQAS AIVDAREKIV EGAVTMVETA LDQLEQREIV DLDPERRAAM  
VSNLLVVLCS DTNAQPIVNA GSLYQ

> RXA02565 (1-342, translated) 114 residues  
AALGDLADEV EIEHLISEEA TVSPTDSRLY NTLEKVLGDF FPDAPVVPPII SSGGSDDLRFG  
RRLGGVGYGF AVHARERTLA EAMGQLHSHD EALYLEDLEL TVRGYDSVVR EFLG

> RXA02567 (1-738, translated) 246 residues  
LIRNACVNDL TPDSGQEIRN AESLERFFEG TPNVKITKLE PHPGRTSIIIV TVPGSDPDAAE  
PLTLGLHTDV VPVDLPKWKD DPFGAEISDG QIWGRGSVDM LFITATQAAV TRQVAREGGL  
RGTLTFFVGA DEEARGGLGA KWLSEEHQNL FSWKNCLSES GGSHPVHDG SDAVVINVGE  
KGAAQRRRIHV NGDAGHSIP FDRDSAIVKI GEVARRIAAA DLKVAKDDIW QGFVQAHFRD  
PETEQA

> RXA02574 (1-1008, translated) 336 residues  
LARAQIPEQQ RDQVASLMMV GVANYDQALD ALNQGVGIGF IGSWTDENLL TEPGRNIEAL  
REAVGRDFSV SIDFEGGRVQ RATNILGDFP SPRVMAQTMT PEQVEDLAEI LGTGLAAHGV  
TVNFAPVVDV DAWGLPVVGD RSFSNDPAVA ATYATAFAKG LSKVGITPVF KHFPGHGRAS  
GDSHTQDVVT PALDELKTYD LIPYQQAISE TDGAVMVGHM IVPGLGTDGV PSSIDPATYQ  
LLRSGDYPGG VPFDGVIYTD DLGMSAISA THSPAFAVLA SLKAGADQAL WIDYGSLSGA  
IDRVDAAVSS GEYPQEQMLA SALRVQLLYI TRLEQK

> RXA02589 (1-765, translated) 255 residues  
MSISDNSRDQ LGELPAGRPL QSDFDNDLDY PRLGSVTFRR GTLTENQQTMT WDEKWPELGR  
VLEDELIDVD AWFREGAKT IVEIGSGTGT STAAMAPLEA DTNIVAVELY KPGLAKLMGS  
VVRGEIDNVR MVRGDGIEVL NRMFADGSLD GIRVYFPDPW PKARHNKRRI IQSGPLNLFA  
KKLKPGGV LH VATDHADYAE WINELVEVEP LLEYKGWPWE ECPQLTDRQV ITKFEGKGLE  
KDHVINEYLW QKVQN

> RXA02592 (1-771, translated) 257 residues  
MASFPELPAL RRLATLGRSW GLLSDFKYEQ TRPDIFYGNL ALDTSSLVAA LSEDISGAGL  
NDLKVLVDVG GPGYFAEAFE TLGATYFSVE PDVGEMSAAG IDVHGSVRGS GLDLPLPDS  
FDVVYSSNVA EHVSAPWELG EEMLRVTRSG GLAILSYTIW LGPFGGHETG LWEHYVGGF  
ARDRYTKKHG HPPKNVFGES LFNVSCREGL EWGASVGNAE LVAAFPRYHP YWVWMVKVP  
VLREFAVSNL VLVFKKH

> RXA02603 (1-996, translated) 332 residues  
VSEHAAEHHR DTQNFLTSEP HTTAIEDNKK RQPPKNLADG MIKALRPKQW VKNVLVLAAP  
LAAGADAIFN QRTIIDVAIA FVVFCEFGASA IYLVNDARDV EADREHPTKR FRPIAAGVLP  
VGMAYGMAVA LIALSIGLSF LATDGVALAC VIGVYIALQL GYCFGWKHP VIDIALVSSG  
FMLRAMAGGV AAGIELSQWF LLVAAFGLS MASGKRYAEI LLHERTGAKI RKSLESYTPT  
YLRVFWTMAA TAVVMSYALW GFDLSQHSTD AGPWYQISMV PFTIAILRYA AGVDTGDGGA  
PDEVALSDKV LQVLALAWVF CIVMAVYIMP MF

> RXA02630 (1-1323, translated) 441 residues  
MTNQFPTNNG ENPDRASTEP SETNSFEHVR SSYPQWGNTA SNQNPYPGAG FGSEQNTQQG  
NEQQAPAWTS WDNQPLSTDV KPAKEKRKVG IGTALALMLV GSIATGSVVG VAATQLGSDS  
STPVNALEQP SVQRTTNAEP GSAEQVAAAV LPSVVSIIQAI TRTSASEGSG SIISSDGYVM  
TNNHVAGIE QSGVLEVSFS DGTTAQADFI AGDPSTDIIV IKIRDVSNLP VMSFGDSDAL  
GVGQSVMAVG SPLGLSSTVT TGIVSAVNRV VRASGDGGES SLIDAIQTD AINPGNSGGP  
LVDMGDNLIG MNSVIASISS TSDSAGSIGL GFSIPSNFAK RVADQLISTG QVTQPMIGVQ  
VGTDNSVTGA VIASVQDGGP AADAGLQPGD IVTKLNDRI DSPDSLIAAV RSHDFGETVT

LTITQPDSQ SREVEVTLTS E

> RXA02641 (1-2076, translated) 692 residues

MLAIILTAVL GASGLAAAGT QYLNTQGEI GPVAVQNDSE SFNSGTNVVV EDAAVTAQGE  
GGGARTVKEF QRDQQFSSFA LTWTGKKDIT AFVRAEQEDG TWSQWYDLEP MVNEDQGTNG  
TELIWHGPTN KIQVSTLNV D LFGADAAAAD ENGQDIPAVD AAEEAAPAAEP APAEAPVEEA  
PAPVAEPAPA AEPIAEPVAD YSANDGLAPL PSNYGDIQPV ADVDDGLNAV FIDGNADAGV  
GIANVADTDG MPKVISRAGW GADESLRCSN PTIDDGVSAT TIHHTAGSNN YTEAQAAAQV  
RSAYSYHAKN LGWCDIGYQS LVDKYGNIYE GRAGGMTNAV QGAHAGGFNQ NTWAISMIGD  
YSYNAPPQET INAVGELAGW RAKVAGFDPT GTDTHYSEGT SYAKYSYGTR VSLPNILAHR  
NVGLTACPGD AGYAQMENIR QIVKAKYTS L QNGNTGGTTT TPATTPKETS TSNA PSTTTA  
QLVTPAEPQQ YSESDALAAL LTGGSSGGTD LLNGANSEQL LTGLGSIAAV LIAASLADGG  
LNLISNVGS NNGVPVLGDI KITDVIPIVD TAINLTGDNK YSRGWNDLNN TLGPVLGAAT  
GGETTVKYTS DQNSEVTFVP FENGIMVSSP EAGTHGLWGA IGDAAWQQGA DLGPLGLPTS  
NEYTVGEQLR VDFQNGYITY DSATGQASIQ LN

> RXA02643 (1-1044, translated) 348 residues

MKNVSFGLDT FGDNAIDLQG NPVSPAQTLR NIIDEAKMAD KVGVDIIGIG EHHREEYSVS  
APDIVMTAIL ASTERLKVTS SVTVLSSDDP VRLFERYSTN NALSNGRAEI TLGRGSFIES  
FPLFGFDLQD YEQLFSERLD LFAKILEADS RGQGVTHWGE TRSALENQML YPPTENGIHA  
WVAVGGSPES VVRAAKYRFP LMLAIIGGAP ERFEPYVDLY KRANEQFGQP QKPIGVHSPG  
LIAATDEEAR ELALNDWLEL QRKIGAERG W APADAMQFER EIDHGSLYIG SPETVAKKIA  
KTISVLDLDR FTLKYASGQT PHEYLLKSIE LYGTEVIPLV KDILTKQA

> RXA02644 (1-651, translated) 217 residues

MAHLTQYQLP QAGQVFEHEL EIKRSRFLTY ITRVQDQEA REFIHSIKEL YPDARHHCSA  
FIFHVDGSND VERSSDDGEP SGTAGKPMLE ALRGSGMKDI AAVVVRYFGG VKLGTGGLVN  
AYTNAVTELL PEVLQVTRSV REIFKIDLPD SDAGRIEANL RGMGIIITDT EYGAEVITYL  
ALLPGEQAAV ESQSSMMGA EIELKESGHM WVESPSD

> RXA02702 (1-1458, translated) 486 residues

VTPHLDASQ DIDLSRVHLI GIGGAGMSGV ARILLARGKT VTGSDAKDSR TLLPLRAVGA  
TIAVGHAAEN LELSGELPTV VVTSFAAIPQ DNPELVARE EGIPVIRSD LLGELLEST  
QVLIAGTHGK TSTTMSVVA MQAAGMDPSF AIGGQLNKAG TNAHGTGEV FIAEADESDA  
SLLRYKPNVA VVTNVEPDHL DFFKTPEAYF QVFDDFAGRI TPNGKLVCL NDPHAAELGE  
RSVRKGIKT V GYGTAQVQA HPEVPAMATI VDSQVVAEGT RATINIDGQE VSVILQIPGD  
HMLVNGAAAL LAGYLVGGDV DKLVEGLSDF SCVRRRFEFH GAIEGGKFNG AAIYDDYAHH  
PTEVTAVLSA ARTRVKAAGK GRVIVAFQPH LYSRTIEFQK EFAGALSAD AAVVLEIYGA  
REQPVDGVSS EIITDAMTIP VVYEPNFSAV PERIAEIAGP NDIVLTMGAG SVTMLAPEIL  
DQLQNN

> RXA02703 (1-1089, translated) 363 residues

MANSKPKMRV VVAGGGTAGH IEPALAVAEA LRDKHGATVS ALGTARGLET TLVPDRGFEL  
HLIEPVPVPR KPNMDLLKLP FRVAKALGQA RKALKDQDAQ AVIGFGGYVS APAYMAAKSL  
GLPFFVHEAN ARAGMANKLG VKLGGVGLNA VAGSGMDGDV VGIPRAVLS GARDESAADR  
ARDTWGLDKD RQTIFVTGGS QGSVSINKAV EQAVDQLVEA GFQVLHAVGK KNELPAKPG  
YHPVPFIDDM QAAYTVADLI VCRSGAMTVA EVTAAGVPAI YVPLPHNGE QALNAQAVIK  
AGAAQIDDA DFTAQTLIDA TLDILLHPST HQSMSDAKT STAGNASTVI ADMIAATINS  
QHN

> RXA02704 (1-1689, translated) 563 residues

MTTGASKKPA RPNTGAKTRT GLGIRERISG AWDNLLARPL TDYIMILCIV VILSCLGVVM  
VYSSSMTWSL REGGSVWGTA VRQGIMIVLG FFAMWVALMT RPQTIRNLSN LILIVSIVLL  
LAVQIPGIGT GKEEVGSQSW IALGPIQFQP SEIAKVAIAV WGAHYLAGKG PVQHWENNHL  
MRFGGVGAFM AFLIFMEGDA GMAMSFVLV LFMLEFFAGIA MGWIAIAGVL IIAALAVLAL  
GGGFRSSRFE VYFDALFGNF HDVRGIAFQS YQGFLSLADG SGLGVGLGQS RAKWFYLPFA  
KNDFIFAIIG EELGLWGGAL VIALFAGLLY FGLRTAKKSH DPFLGLMAAT LTASVVSQAF  
INIGYVVG L PVTGIQLPMI SAGGTSAT I LASMGLLISC ARHEPETVSA MASYGRPAID  
RLGLREPSS TLTTNSASLR SNKTKAAKQK PSPQESRDR FGEPVTARRA QAPRSGRAGV  
QSEAPRRSTG SVKGRSSGQD NGRSNEGTA SQTSTGGRAA DRSVDRSRQS RPTERRSESR  
AMIGVTTATA DKCEIRRTN KDG

> RXA02705 (1-1416, translated) 472 residues  
 MGSLSHLPQA LQGRILVAGA GVSGLSIAKM LSELHCDVVV ADDNETARHM LIEVVDVADI  
 STAQAQEQLD SFSIVVTSPG WRPTSTLLVD AHRQGLEVIG DVELAWRLDQ AGVFGEPTW  
 LAVTGTNGKT TTTSMLAAMM NEGFTAKAV GNIGIPVSEA LVAKNRIDVL VAELSSFQLH  
 WSPTFTPDAG VVLNLAEDHI DWHGSMRDYA LAKMEVLK GK VAIIGADDPY LVQLTSEADL  
 SGLIGFTVNE PATGQLGVKA GELVDNAYGN NVVLASADGI NPAGPAGVLD ALAAAVARS  
 QGVAPEAIAR ALDSFEVAGH RGQVVAEHDG VHFIDNSKAT NPHAADSALA GHDSVIWVVG  
 GQLKGADIAP LVKKHEQRIK AALVLGADRA EIVAALKEHA SQASVFVTDK TEPFEAMEEI  
 VTEAFSISEP GDTVLLAPAA ASLDMFKGMG QRGDLFAHNI IGTIKGLTEE KG

> RXA02706 (1-1098, translated) 366 residues  
 MQQIMVSGTV AFLVSIFLTP VLIRYFTNRQ LGQEIREEGL QSHLRKRGTP TMGGIAIIAG  
 IVVAVVFTNI LAMIQGVGGF TVSGLLVGL TLGLGATGFA DDFIKLYMNR NLGLNKTAKL  
 VSQLAIALIF GFLVLQFPDE NGLTPASTHL SFIRDIDTID LGFGGSVFGI IVFLIFIYV  
 VSAWSNAVNI TDGLDGLAAG TTAFFVMGAYT LITFWQFRNS CDTAVEAGCY TVRDPLDLV  
 LCAAGLGATL GFLWVNAAPA KIFMGDTGSL ALGGLVAGIS VVSRTLLMV IIGALFVIEI  
 ASVAIQIGVF KTRGKRVFKM APIHHHFEAL GWAETTVTIR FWLIAIMAVL AGVGVFYSDW  
 LHLAEV

> RXA02707 (1-345, translated) 115 residues  
 MGELGDDASE AHAELGAELA KYNVQELVAV GENPNCAALA ESAASLGVST HVVSDVDAAL  
 ELLAGHIKRD DVVLVKASNA DRLWRVAEAL HGMVPLKNT GGSVNDDSRR NVEGQ

> RXA02708 (1-435, translated) 145 residues  
 MAPRTKARVV WFTTDAGQAK KSDYWATSIS LDAVARASFT LNTKDGSWPV TLQVFGEHQV  
 ANALAAAAIA MEAGVAPELV VAGLEAHSAA SAHRMDVKTR ADGVTIINDS YNANPDSMRA  
 GIAALAYTAS GRSEATKLGS AWPNG

> RXA02709 (1-729, translated) 243 residues  
 MTLGEIADIV GGRLTGGQAE DTLVSSSVEF DSRSLTPGGL FLALPGARVD GHDFATAIE  
 KGAVAVLAAR EVDVPAIVVP PVKIQESNAD IYAHDPDGHG AAVVEALSRL ARHVVDICVA  
 GHQLNVVAIT GSAGKTSTKD FIATVLDQDG PTVAPPGSFN NELGLPHTAL RCTTDTKYL  
 AEMSARGIGH IKHLTEIAPP RIAAVLNVGH AHLGEFGSRE NIAQAKGEII EALPSKKTAR  
 YQS

> RXA02710 (1-1563, translated) 521 residues  
 MATLLDLTK LIDGILKGS QGVPAHAVGE QAIAAIGLDS SSLPTSDAIF AAVPGTRTHG  
 AQFAGTDNAA KAVAILTDA GLEVLNEAGE TRPVIVDDV RAVLGAASSS IYGDPSKDFT  
 LIGVTGTSGK TTTSYLLEKG LMEAGHKVGL IGTTGTRIDG EEVPTKLTP EAPTLQALFA  
 RMRDHGVTHV VMEVSSHLS LGRVAGSHFD VAAFTNLSQD HLDFHPTMDD YFDAKALFFR  
 ADSPLVADKQ VVCVDDSWGQ RMASVAADVQ TVSTLGQEAD FSATDINVS SGAQSFKINA  
 PSNQSYQVEL ALPGAFNVAN ATLAFAAAAR VGVDGEAFAR GMSKVAVPGR MERIDEGQDF  
 LAVVDYAHKP AAVAVALDTL RTQIDGRLGV VIGAGGDRDS TKRGPMGQLS AQRADLVIVT  
 DDNPRSEVPA TIRAAVTAGA QQGASESERP VEVLEIGDRA EAIRVLVEWA QPGDGIVVAG  
 KGHEVGQLVA GVTHHFDDRE EVRAALTEKL NNLPLTTEE G

> RXA02711 (1-2112, translated) 704 residues  
 VTFPSNGRSR GERAGREDS RRSAYQDES RAARERELTR RSGKAKGVNQ EEGVYRPKS  
 STQGGARKRR VNMVTAIALV IAGVLIIRLG WVQVWGPPEL SLNASEQRTR VYVDPARRGS  
 IVDREGNQMA YTMQARSLTV SPNIMREELK TGTDLALRLA AEETDPENVA SYVTIEEGNA  
 YVFASEEQRE TILSDKVEER IQSIADRIPE IIKSHDQDVT GISSEEILDK LNADSQYEV  
 VRNVDPDVAS EITDEMPSVA ADHQDIRQYP NGAIGENIIG RISMDGEGQF GFEASNDLL  
 AGNNGRSTQD MSILGQAI PG TLRDQIPAID GASVELTVDL DLQTYVQQAL EQAKANS  
 NASAVVLDK TAEVLAMANT DTINPNEDTG KQIEQGKSFD NPSVTHPFEP GSVAKVITAA  
 GVIQEGLTTP DEVLQVPGSI EMAGVSVGDA WDHGVVPYTT AGIFGKSSNV GTMLAQRLG  
 EDKFADYLER FGVGQPTGIE LPSESQGLLP AREQWSGGTF ANLPIQGMS ITTLQMAGIY  
 QALANDGERI QPRIKSVTD SDGTVLEQPE PDKIQVVS AE AARTTVDMFR SVTQVDPTGV  
 QQGTAPDASI EGYQISGKTG TAQKVDPTNG AYSNSQWIT FAGIAPADDP RFVVAIMLDE  
 PERGVHGGGG QTAAPLFKDI ATWLLNRDNI PLSAATEPII LQAQ

> RXA02713 (1-1011, translated) 337 residues  
MEDFSLDGNH GHVPVMDRDM AALIAEHVEA LGENAVIVDA TLGAGGHAEF FLNTFPKARL  
IGLDRDQNAL RDARARLAPF GERFIGVQTR FDGLREVLES VEGDIIDLAR EHGIAGALFD  
LGVSSMQLDQ VERGFAYRTD APLDMRMDAT QGITAADILN TYSHGDIARI LKTYGDERFA  
GKIASAVLKE REKEPFTTSA RLVELLYDAI PAATRRTGGH PAKRTFQALR VEVNNELDSL  
KNVLPQITDA LNVGGRAVFM SYQSHEDKLV KKFFTDLTTS KTPPGLPVDL PGTAPOFKQV  
TRGAETASEA EIEENPRAAP VKVRAIERIG NNSGDLS

> RXA02716 (1-561, translated) 187 residues  
VSPPIRKLSI PEFTTNTPVL VDIYIAAMNY DKAIRDTRIE VWRNRSQNPG FTAVAALMDD  
QVVGVAAYGFN GSPDHWVQHQ LRRGLRQGGG PTEEEIHIIH NYFEVAEVHV QPGFQGHGIG  
RKLMEHLLKD KQNTFAILST PEVDDEANHA FSLYRSLGFT DLLRQFRFDG DQRPFAVLIT  
ALPLHDS

> RXA02722 (1-1326, translated) 442 residues  
MTSPNNYLAK IKVVGVGGGG VNAVNRMIEE GLKGVEFIAV NTDSQALMFS DADVCLDIGR  
EATRGLGAGA NPEVGRASAE DHKNEIEETI KGADMVFVTA GEGGGTGTGA APVVAGIAKK  
MGALTIGVVT KPFEFEGRRR TRQAEEGIAA LKEVCDTLIV IPNDRLLLELG DANLSIMEAF  
RAADEVLHNG VQGITNLITI PGVINVDFAV VRSVMSEAGS ALMGVGSARG DNRVVSATEQ  
AINSPILLEAT MDGATGVLLS FAGGSDLGLM EVNAAASMRV ERSDEVDNLI FGTTIIDNLG  
DEVVRVTVIAT GFDAARASAA ENRRAGISAA PAAEPVQQQV PTTNATLPE KESIFGGARE  
ENDPYLSRSA GARHRIETR SGGGLFTTGN DRDYRRDERR EDHRDERRDE RRDDRSYDRR  
DDRRDDRRDD RGDDLDPVPSF LQ

> RXA02723 (1-477, translated) 159 residues  
DATAAGQNIV ELPWVKSVTV NRALPSTITV ELTEREPAVF IKRADGDHVI DTEGKEIIG  
TPPVGTVEVS GADEGNSEVL PAVIAVINAI KAQDAQMTES IQVVEAPDQF DILLKMNDGR  
EIYWGSSENN HDKAVAMSTV LKREGQRWNI SSPSMVTV

> RXA02745 (1-879, translated) 293 residues  
AGISFEVPRG QVLALLGPNG AGKTTTIEMC EGFTAPTSGS IRVLGIDPAT EPDQVRRRIG  
IMLQGGGSYS GIRVFEMKLK AASYNDNPHD PEWLLDLVGL REQRKTTYRR LSGGQQQRLS  
LALALIGRPE IIFLDEPTAG MDAQSRNMVW ELVNDLRRDG VTIVLTTHLM DEAEALADHV  
IIVANGQILA SGTPELTAQ RDHLEINVSF ETTSPLDLDR LVDDLSSLNI GDVKARANRP  
LHYSRLTQQA TPDSLHIVQ AVARQNV MIR SLDTGHRSL DVFLDITGKE LRS

> RXA02746 (1-267, translated) 89 residues  
GVQGMTVTET QGFGQKQHT EVYRGAEYAV DFVPKVKIEV IISDAQAEV INIIVETART  
KKGVDGKVWM TNEELVRVR TGERGEAAL

> RXA02813 (1-642, translated) 214 residues  
GALTGGWLVA VDNAARALEA LEFPVSYGGA SGNMTAVHPR GFEIQAKLAE ELGLFDPQWV  
WHSRTPITA IASALATAAG VVRKIAGDVV FYSQTEVGEL REKSPGGSSA MPHKANPAAA  
IACDGYARRA PGLLATLFDA LDCRLQRGTG SWHAEWATLR ELAAVTHSAV SRAATSIDGI  
TVNVDMASR VNGPTGHAED LAERALEIYG KGRS

> RXA02820 (1-507, translated) 169 residues  
ANSAEDLSHD PEAAAYFLDE NGDAKAPGTL LQNPDAETI RLISEGGPDA FYTGEIAADI  
VERATREVDG FTPSLMSTAD LAAYTPETRE ALCAPYRDKI VCGMPSSSG GVTVMETLGI  
LNNFDLAQYP PTEVGLDGG L PNAEAVHLIS EAERLAYADR DAYIGDPAF

> RXA02828 (1-558, translated) 186 residues  
MKRRDFLSAL SAGTSLGXF APQLLLAQGM NQPMRAPIHV GKSGLRARDA EALATWYQSH  
VGLQEIGRDG ATIHMGAGGT VLEITQYDG IVLAPMRVAG LYHNAFLPA RADLARWVLD  
ASARQLRIDG YADHLVSEAM YLTDPEGNGV EIYADRPASD WVRNGQVEM DSLQIDFYSM  
IATLDG

> RXA02834 (1-495, translated) 165 residues  
DSKGRSVDFK NTIIIMTSNI GSQVLENVK DAGEISDDTE KAVMDSLHAY FKPEILNRMD  
DIVLFKPLSV NDMSMIVDKI LTQLNMRLLD QHISIEVTEE AKKWLGEAY EPQFGARPLK  
RFVQRQIETP IARMMIKESL PEGTIKVDL NDNKELDFKV VKPTS



> RXA02839 (1-417, translated) 139 residues  
 CVVNDYADRK FDGHVKRTAN RPLPSGAVTE KEARALFVVL VLISFLLVLT LNTMTILLSI  
 AALALAWVYP FMKRYTHLPQ VVLGAAGWS IPMAFAAVSE SVPLSCWLMF LANILWAVAY  
 DTQYAMVDRD DDVKIGIKS

> RXA02855 (1-1185, translated) 395 residues  
 VMEIGVQVAS WMDRHHDEVI KWRRHLHSHP ELSHMEYRTT EYLASVLKDH GMEPHLFPGT  
 GLMVDIGPEG DSRLAFRADI DALPLESTG LEFSSTATGV AHACGHVHT VIALALACAL  
 NTIELPIGIR VIFQPAEEVM TGGATDVIAH GGLDGVDAIY AIHVEPKLV GRVGVRAI  
 TSASDVIEIR VKGEGGHSAR PHLSADVYA LSKLVVDLP LLSRRVDPRT GTVLVFGTIN  
 AGYAPNAIPD SGIVSGTLRT ADISTWRDMR PLISELVEQV LAPTVTHEL IYNPGVPPVL  
 NDDVATALLA SAARDMDTQS VVQAPQSSGG EDFSWYLEHV PGSMARLGCW PGHGPQDLH  
 QSDLVVDERA IGVGVRLFGS LVQQYSSRSE AFLNS

> RXA02859 (1-726, translated) 242 residues  
 QYTVQQLLHG LLLASGNDA YLLAQELGGD QATLEKVNAL AKELGTQDTF VATYSGLDAP  
 GMSTSAYDMS LIYQHAWQNP VFESIISTDH IDFPGWGDNE GFQVWNDNAL FMNDPDGIGG  
 KTGYTDDANH TFVGGLDRGG RRLAAVLLDS TVSDIRPWEQ ARLLIDASLP ITPGSGVGQL  
 GSGSANDVAP ATPELPEPTD NLTSGEGGSQ NTLKLVPPI GIIVLLLIAA LAWTFRSPKK  
 KN

> RXA02895 (1-666, translated) 222 residues  
 MAEQLRQFEG RVLPNQSED EDQGLGFDLG TVFSRRKVLG FIGVGGAGVA LAACSPSGSS  
 AASSTSSASS SAAATTSAAA ETLTEMKSET AGPYPGDGSN GPDVLEVSGV ERQDITKSID  
 SDTVAEGVPL TLTMTILDMN NNNQPMEGAA VYVWHCDAPG RYSMYDSELE DETYLRGVQI  
 TDKYGQVTFD TIFPGCYAGR WVHIHFVFP DRDSITDSTN NI

>RXN00045 TRANSLATE of: rxn00045.seq check: 4044 from: 1 to: 909  
 MTDPTCTLALDIGATKIAYALVPDNTPTTTLSTGRLGTKEGDSPIEQIRLVLLAGLKAAE  
 EHGLSVARIGMGAPGVILGPEGTIVYNGETLTWAGTDLRGLSREVLNVPFAAHNDVRVW  
 AYGEHHLGTGKDLTGRLVYVSLGTGVGGAIIEDGIMMSPTGTAGEFAEVVCSHDAGLAV  
 RCENVASGTGLTRYNEAAATQLDLPAIMERFHQGDGLAQQIITGNLRGFGQALGALVTV  
 LDLSAVVVGGVAGIGAPVMDPITAGIFDRVLTNPKSVQVLSTSLGAQAAVIAAAKYARD  
 NAF

>RXN00073 TRANSLATE of: rxn00073.seq check: 5738 from: 1 to: 1683  
 MTTTTSARPARAARKPKPEGQWKIDGTEPLNHAEEIKQEEPAFAVKQRVIDIYSKQGF  
 SIAPDDIAPRFKWLGIYTQRKQDLGGELTGQLPDELQDEYFMMRVRFDGGLASPERLRA  
 VGEISRDIYARSTADFTDRQNIQLHWIRIEDVPAIWEKLETVGLSTMLGCGDVPRVILGSP  
 VSGVAAEELIDATPAIDAIRERYLDKEEFHNLPRKFKTAITGNQRQDVTHEIQDVSFVPS  
 IHPEFGPGFECFVGGLSTNPMLAQPLGWSIPLDEVPEVWAGVAGIFRDYGFRLRNRRAR  
 LKFLVAQWGIEKFREVLETEYLERKLIDGPVVTNPGYRDHIGIHPQKDGKLYLVKPTV  
 GHTTGEQLIAIADVAEKHGITRIRTTAEKELLFLDIERKNLTTVARDLDEIGLYSSPSEF  
 RRGIIISCTGLEFCKLAHATTKSRAIELVDELEERLGDLDVPIKIALNGCPNSCARTQVSD  
 IGFKGQTVTDADGNRVEGFQVHLGGSMNLDPNFGRKLKGHKVIADEVGEYVTRVVTTHFKE  
 QRHEDEHFRDWVQRAAEEDLV

>RXN00136 TRANSLATE of: rxn00136.seq check: 222 from: 1 to: 1095  
 MSAVQIFNTVHVNGSSPYDVHIGSGLNELIVQRAAESGAEQVAILHQPSMDDIASELDAA  
 LVAAGLKVHLNVPDAENGKSLEVAGQCWDELGGAAFGRRDIVIGLGGGAATDLAGFVAA  
 AWMRGVRVIVPTTLLAMVDAAVGGKTGINTAAGKNLVGAFHEPDAVFIDTDRLATLPDA  
 EIIAGSAEIIKTGFIADPEILRLYETDPAACLKKEVEGSHLPELIWRSVTVKGSVVGQDL  
 KESSLREILNYGHTFAHAVELENFRWRHGNVAVGMMFIANLSHKLGLIDAPLLERHRS  
 ILAAIGLPTSIEGGAFFDELYDGMTRDKKNRDNIRFVALTAVGEVTRIEGPSKQDLQSA  
 EAISH

>RXN00177 TRANSLATE of: rxn00177.seq check: 5596 from: 1 to: 1068  
 MSLQFDHETLQVRVLFSGEAAQNLAEEISRLDAKNVMVVGDFELPMARQVAADIDVKV



RXN00398 TRANSLATE of: rxn00398.seq check: 1161 from: 1 to: 750  
MAKLFDSHFHIIDPQHPLIENNGYLPEPFTVEDYTARVEGLEVAAGAIVSGSFQAFDQGY  
LKDALAVLPGYVGVVTQIPADTSDQEILDLDKAGVKAVRLNLKRGGSSAGLDDLETARRV  
HDLAGWHTELYVDARELDELESTLASLPAVSIHGLHRDGLPALRLVENGIVKATGF  
GRVELDPTTEVIQAIMAVDPTALMIGTDLPSTRTRKPFEDADLDLIAETVGEDHVDNVFWN  
NAAAFYLGDDQ

>RXN00434 TRANSLATE of: rxn00434.seq check: 6086 from: 1 to: 867  
VLVKVKPAGVNRADLLQTQGNYPVPAGASEILGLECAGVIVNAGDTGQTVGQEVACLLTG  
GGYAQYVAVPEGQLMPIPEGYSFVEAASIVEVACTVWSNIGMLAGLQKEDTFLIHGGAGG  
IGTFAIQMGKALGVTVAVTAGSTEKLKTKCNLGDILINKEEDFAEVLKKNKADVILDII  
GAKYLSQNVKAMAKDAHMVVIGMQGGVKGELNLGHLAKRGITISATALRGRDEADKARIV  
SSTVENIWPLLQSKEITPHIDHTLPLAEAAAALQKIQDGTITGKLVLA

>RXN00470 TRANSLATE of: rxn00470.seq check: 9539 from: 1 to: 1269  
MGESPEKVAFRVFPDGLVSQGHDMIEDMSNTFAPYTPQAGQAVPLYPTFTRSRDGRVVA  
GVASGLAKHLNVSFVWRALLIFAALLSGAGLFAYALIWIIFTRIEKKSGEASTSKRWVS  
WCLVLLAIGGAAASVMLSTGFAVGTLPVIGVGVGLLMVWLAYDRGVESGPNLLIIATGG  
VLMLVAIVLIVMNWNTQDGFVMAVAVVLTLVGVAALGVPLWVRMWDQLGEERAEEKAAAA  
ERADIASRLHDSVLQTLALIQKRADDPAEVARLARGQERELRQWLFDSQDKTPQTTGTVF  
TALERACGEVEDIYALRIVPVTGTDEALTEKTQAAVMAREALNVAKHAGVETADVYA  
EIMLGELNIFVRDRGAGFDPDNI PDGHHGLAESVQGRVERAGGKVRKSEIGEGTEVAIT  
MDV

>RXN00499 TRANSLATE of: rxn00499.seq check: 1415 from: 1 to: 1281  
VVGVVSTPARNLGSMKTGLSLQLEEITLTLPLTEDVADERTIDVFARIATRVGGEDLPY  
LVFLQGGPGNEAPRPSLNPLNPNWLGVALEEYRVVMLDQRTGRSTFVGNDILEKPTAEV  
VEYLSHLRADGIVRDAEALRKHGLGVNQWNLGQSFGGFTTLHYLSRHADSLDNVFIITGGL  
SAIDRPAEDVYANCYNMRRNSEEYRRFPQLRETFRGLVNRARAGEIVLPTGEVVSETR  
LRSLGHLLGSNDGWFDLYNLLELDPTSNAFVHDLAGLLPFGNRNPIYYVLHESYADGVV  
TNWAAERVLPEDFREDPTLLTGEHVFQEWTDTPVSLKPWKDVALALAQEWPKLYDAKAL  
ENSQAKGAAAVYANDVFVPVDYSLETAQHLPVQLFITSQHEHNGLRASSGAVLKHLFDL  
AHGREVR

>RXN00513 TRANSLATE of: rxn00513.seq check: 4398 from: 1 to: 921  
MAGLFSSAVAPTEERRKALRAALAAPEIARMPGAFSPLAARAIQEAGFEGVYVSGAVVAAD  
LALPDIGLTTLTEVAHRSRQIARVTDLPVLVDADTGFGPEMSAARTVSELEDAGVAGCHL  
EDQVNPCKRGHLDGKEVVGTDIMVRRIAAANERRDEQFVICARTDAAGVEGIDSAIERA  
KAYADAGADMIFTEALYSPADFEKFRAAVDIPLLANMTEFGKTELLPAQLLEDIGYNAVI  
YPVTLLRIAMGQVEQALGDIANTGIQTDWVDRMQHRSRLYELLRYNEYNAFDQVFTYSA  
DSYKPIF

>RXN00531 TRANSLATE of: rxn00531.seq check: 3085 from: 1 to: 495  
MANYTVPGINENDAKQLIDGLQERLTDYNDLHLILKHVHWNVTGPNFIHAVHEMLDPQVDL  
VRGYADEVAERIFTLGGAPVGTPEGHVADRTPLQYERNAGNVQAHLTDLNRVYTQVLTGV  
RESMASAGVPDPTEDIYISQAAELEKFQWFIRAHIVDVGNIQE

>RXN00549 TRANSLATE of: rxn00549.seq check: 5535 from: 1 to: 1674  
MVMFGAYIMVDVPEPEELVSPQVSQIYASDGETELARIVPPEGNRQMVTIDQVPDTPVKN  
VVAEDREFYTNPGFSITGYARAALGVITGDSSAGGGSTITQQYVKKAVVGDERSLIRKA  
KELVYSKAMANEWSKDEVLEAYLNTVYFGRNAYGVQAAAHAFDVKPEELTAAEGAVLAA  
SIQLPSQLDPWTPVEAETRWNYVMDGLVEIGAISAEERAVATYPETTDPASNSAYTEAT  
GTNGLIKNQVMAELSELGITEDDVQTCGLQVTTTTIDPKTQEGAVEAVQNQLDLSENRA  
AVVSIDPSNGAVRAYYGGENATGWDFANAPLOTGSTFKIFGLAAALQQGIPLSQPYSSAP  
VTVGDAQIGNVGGSGCGSCSIEQALLHSYNTSFIRLQQDLENGSQDTADMAHALGIAKSL  
PTIPETLTENGETPYEGIIILGQYESRPLDMASAMATIANEGVWHRPHFVSKVETVSGEVL  
YEFEDGDGERRVSEKVALNLLKAMGPIAAYSNGNALADGQVSASKTGTTQLGDTGANKDA  
WMLGAAPQLATAVWVGTA

>RXN00550 TRANSLATE of: rxn00550.seq check: 1281 from: 1 to: 321  
MYGSNSPATIWKQTM DNALENS PLETWDIAPALGYGNPPVPEYVWTPSPNIATNDPEGAT  
EEAPVEDPNAVIDTPAVDPTAPAEETGNGQVEILPGLTIPGDLLGIG

>RXN00621 TRANSLATE of: rxn00621.seq check: 1431 from: 1 to: 783  
MSERLNAPQAPIHPITRTHHGIDFVDNYEWLRDKESQETLDYLEAENAF TKQETEQLATL  
RDNIYEEIKSRVKETDMSIPVRAGKHWYYSRTEEGKSYGYSCRIPVTEGSDAWTPPVIPE  
GEPAQGETIIMDANELAEGHEFFSMGASSVTTSGRYLAYSTDVTGEERFTLRIKDLETGE  
LLPDTLTGIFYGATWVGEEYLFYQRVDDAWRPDTVWRHKVGTPEEDVLVYHEPDERYST  
WVGTRSEKVHPFWLRLQDHL

>RXN00622 TRANSLATE of: rxn00622.seq check: 2214 from: 1 to: 1416  
MNVIPPGWAPLVQKKFILFGCASKITSEVRVLPFDQPEGTPEVLI PRAEGVEYDV DHAVV  
DGS DIWLVT HNAEGPNF SVGWAGVDK LNSLDALAPLV AHKDDVRIEGVD TYRDFI ILGYR  
SGAIGQVAIMKLIDGTFGDFQQLFDEEIIYTVASGGNPEWDAPVIRLSYGSFTTPAQLFN  
YWIESGERTLLKQQEVLGGYKPSDYVASRLVWTA KDGAQIPVSLVHRTDLDVSKPNPTLL  
YGYGSYESSIDPGFSIARLSLMDRGMIFAI AHVRGGGEMGRGWYDNGKTTTKNTFTDFI  
DVADALIEQKISAP EMLVAEGGSAGGMLMGAIANMAGDRFKAIEANVPFVDPLTSMMLPE  
LPLTVIEWDEWGDPLHDKDVYEYMASYAPYENIEAKNYPN ILAVTSLNDTRVLYVEPAKW  
VAQLRATATGGEFLLKTEMVAGHGGVSGRYE KWRETA FEYGWLINQATGVTE

>RXN00639 TRANSLATE of: rxn00639.seq check: 1844 from: 1 to: 855  
MTSAEQIVDP T AHD SGNKATDKFKANRVSSDTSKERANAIYVDLLAAIAQVAHKHEV TYE  
EYAVLKQWMIDVGEYGEWPLWLDVFVEHEIEEINYNRHDYTGT KGSIEGPYYVENS PKLP  
WDAEMP MRDKDRAC TPLIFEGQVTDLDGNGLDGA EVELWHADE DGYYSQFAPGIPEWNL R  
GTIVTDEEGRYKIKTLPAPYQIPHDGPTGWFIESYGGHPWRPAHLHLRVSHPGYRTITT  
QLYFEGGEWVENDVATAVKPELV LHPETGEDGNHVHYPFVLDKED

>RXN00641 TRANSLATE of: rxn00641.seq check: 1023 from: 1 to: 1491  
MSTPVSNLASVQKTL DHALED RP EEGIVRVNRNIFTDPEIFELEMRHIFEGIWMDMAHES  
QIPNGGDYFTTYIGCQRIMITRSKEGT LNGLINACSHRGAMLCRGKSDNRTSLT CPFHGW  
PFCNGGALLKVKEGEGAYPENFR TDGSHDVRVPKLESYRGFLFGSLNDDVVSLEEHLG  
DTRTVIDMLVDQSPEGLEVL RGSSTYTYDGNWKLQTENGADGYHVSSTHWN YAATTSRRG  
TGESANETKAMDAGTWGKQGGGYFSYPYGHMLLWMMWGNPEDRPLFERRDEFKKEFGEEK  
GEFMVGASRNLC LYPNVYLM DQFSSQIRHIRPISVDQTEVTIYCIAPKGESAEARANRIR  
QYEDFFNATGMATPDDLEEFRSCQKTYQASAFPWNDMTRGLGHQVQGPNEVAKGLGMNEV  
LSSGARTED EGLYPIQHGFWHELMQEAVNKQSIKEKELADDTASSLATVAAAKIREEAKA  
AAKSDAGEPRRRRRTRG

>RXN00658 TRANSLATE of: rxn00658.seq check: 6023 from: 1 to: 693  
VRHDEHYPA AANLIAFDKGWSTLIAPQLEDPEAE EFTAGFLTEYQDNLITAGMEHQALAS  
GFPVGRRFKSDIALRRCD AVTTHIGHEHSADGHWR IYVFAGQATPDSESALNKWAQWME  
ESEDSP LNRTPEAGDRNAVFDIKATYQQHYHSFDLFD APEVFFPRVGPYKLQNL ENVWT  
ALDSQDIFESRGISR DGAIVVVRPDQYVA AVLPLEDTAALAEFFNGNLLEP

>RXN00663 TRANSLATE of: rxn00663.seq check: 3662 from: 1 to: 1374  
VTTTYPDFLGNSSLQTDTEHWEMEGGAQEVSVTYVLDTSVLLSDPLSLTRFAEHDVVLPI  
VVITELEAKRHHPDLGFFARQALRMLDELREIHGDLSKPLPIGDEGGHIHVELNHQNTGS  
LPVGFRLGDNDTRILAVAKNLQEEGHN VVLVSKDLP MARIKASASGIAAQEYRAALARDG  
YTGMT HANITDDQLSELYDTGEVRIEELEKLPVNHGFTLKSNSGSALGRMNSDKIIELRP  
GDQQVFGISGRSAEQ RVAIDL LNDDAVGIVSIGGPAGTGKSALALCAGLEAVMERRIQRK  
IIVFRPLFAVGGQELGYLPGDQEEKMG PWAQAVFDTLSSMVSQNIIDEALS RGLIEVLPL  
THIRGRSLHDAFVIVDEAQSLERNVLLTMLS RIGQNSRVVLTHDVAQRDNLRVGRYDGIV  
SVVEALKDH E LFGHITLQRSERSRIAELVTQVLDAPSL

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>RXN00665 TRANSLATE of: rxn00665.seq check: 1137 from: 1 to: 501  
MSSSTLLLASGQVTLAADYTLSTPSDGILVVLGFAMILTFMTLIMLGRLLTPMVAMLLV  
PTIFGLIAGAGLGLGDMALDAIKDMAPTAALLMFAMFFGIMIDVGLFDPLIRVITRVLH  
DDPAKVVIGTAVLAGVVS LDGDGSTTFIITTFRDA AHL PAPWHEPCG

>RXN00675 TRANSLATE of: rxn00675.seq check: 9322 from: 1 to: 792  
MGFRSKKKVIAAKTAAELDAMQAAGEIVGKALQAVRAEAKAGMSTWDL DQIAEQVIRDAG  
AVPTFLGYQGFPASVCASVNEVIVHGI PSKETILEEGDLVSIDCGATFDGWVGDSAWSFG  
IGELDEDVQGLNLATEWVLMEGMKAMVPGNRLTDVSHALEVATRKAESKFGVALGIVDGY  
GGHGIGRHMHEEPYLANEGKAGKGPV IQEGSVLAIEPMLTLGTEDSAVLEDDWTVVTLDG  
SWASHWEHTVAATKGGPRILTPRY

>RXN00689 TRANSLATE of: rxn00689.seq check: 7633 from: 1 to: 1491  
MNAATRRASLQLPYTHVDDFYINGSWVKAEGTQRNPVVDPAVGQEWGSVPEATASELDSA  
VGAARTALKSWSALTGAERTGYLLKIATEIESRSEALALNTRENGSPISETRGAASNAA  
GIFRYFATLAPWLDGEDIRFPFAGSAESIVDKDPIGV CALIAPWNFPINLVVIKLAPALL  
AGCTV I IKPASPTPLSIRFIIIEAIEAAGVPAGVVNLLTGSGRFGDALVRHPGV D KVAFTG  
STPVGKKIAAACGELLRPVTLELGGKSSAILPDADMSVLSTR LIRSCMRNTGQTCYIST  
RIIAPSSRYAEVQTVASTIAAGRQGD PYDEETVFGPVASASQYSTVMSYIDSAREEGAR  
VVAGGTRSISLSEGLSEGEFIQPTVFADVTPDMRISREEIFGPVISILKYDDTNGVSEAI  
ALANNTKFGGLGVFGADEEQALEVARQVDSGSGVINFFGSNHSAPFGGRHESGMGVEYEG  
IEGLSAYLTYKSIHRTI

>RXN00778 TRANSLATE of: rxn00778.seq check: 6349 from: 1 to: 1125  
VNLTLKRSIALVGAVTAGSFALVACSDSNESDSTSSSAASTGSSDAASIEGLSGVTGQLV  
AEGASSQQSAMDYFGIRYSEAVSGASLAYTPSGSGSGRTNFAAGQVAFGGSDSAMKDDQA  
AEAEARCNGNEAWHLPFVIGPVAVAYNLPGVDTLNLDTNIIAQIFKGEITKNWDEAIASQ  
NEGTDLPDQDISVLRYSEESGTS DN FQKFLGASTDIWETEGQQFPTEVGSGAQGSNGVAS  
EASNIEGAIITYVEAGFANQSG LGVANIDFGSGPVELNAESVGVALGALD FLTEGHNMVVD  
TDAMFAMNEAGAYPLILTTYEIVCSAGYDETT RDQVKDFLTVALDSQDDQLEALGYIPVT  
GEHYDRLVA AVEAIQ

>RXN00787 TRANSLATE of: rxn00787.seq check: 6866 from: 1 to: 1902  
VSQPLSKRLSIRKALASAFIVALAFSLSPVAKAQANETPTMIVLDNSGSM TAQDAGGQTR  
IDAAKQASTQLINDISDRTDVGLTYYGNTGETADVEMGCQDV TILGGPSRGNADTLID  
TINSLQPRGFTPIGKALTDTA AELPEGGNIVLVSDGIANCTPPDVCEVAQELAQSGINLV  
INTIGLNVDPAAREELECIAGVGGGTYADASDAQSLTDALTRAASRQYNSYTS DVT KIDG  
ASEQSAAVEIDEDTELFLTDLPQESRFWKI PVEPGETISVSANTVTDPTVLTMGQGGIKL  
EAQLHTEEAPQYGLRGCTRVSFDNFKPGLGVRGIQNASVASKEVGTNNCDTDAIYLEIS  
RSGDYLNQDIPTEITIERFGKVDESTIGNVTEEHSSVDLTEAAASEAHPVTPGQWFTSA  
ADLDPAGEKVSSIIIVPGETHFYALPVDYQOELRAAVETTFDQIDSSALGTHLYIQAFSPN  
RAEIELTNRDTSYADDNGLKTFGFFT PVSAANLF EKSSQGISLRSPWQGGTQYLAVTYLP  
SGQDEDVSATDQLPTLEYELVAEAFGDPVDPVFASLTGATPSTSTPPSDVAEDEQISEA  
TEEDSSSFPIVWIGLVIGLGI IIGLIFALRRKN

>RXN00818 TRANSLATE of: rxn00818.seq check: 6962 from: 1 to: 840  
VKHPDPAQKVEGTTATPTPKVAFFDLDKTIIAMSSTYAYGREFMNSGLISPVEALQLSL  
AQATYMFAGHTSEQMDNTRDQLTAMIRGWEVQQVRSIAEETMHSVVTPTIYAEARELIEH  
HQELGHDVIIISASVKELVEPIARELG VHKT VTTVLEAHDGMYTGEVLFYCKGDAKAQSI  
LDLAEANNYDLSLSFAYSDFSFTDLP MLEAVGNPAAVNPDRA LKKIALEQGWKILSFKNPE  
PLFQMPSTRDVGIGTGVVAGIAAVTAGSIWWMKRARRGSA

>RXN00820 TRANSLATE of: rxn00820.seq check: 6937 from: 1 to: 363  
VNTLADATDDQQWIHTDPERAKDGPFGGAIAHGFLTLSMIIPFWGELL DVTGVTTKVNYG

LDKVRFTSPVKVGSRI RMGAVVREISEVKGNGLHLVADGTIEIEGQERPAVVATFLTRFY  
A

>RXN00866 TRANSLATE of: rxn00866.seq check: 4209 from: 1 to: 966  
MNSDRNRGRKVKTRKAGPPEAGQENHLDTVPVQAPDASSNQSAVKAETAGNDNRDAAQGAQ  
GSQDSQGSQNAQGSQNRRESGNNNRNRNRRGGRGRRGSGNANEGANNNSGNQNRQGGN  
RGNRGGGRRNVVKSMQGADLTQRLPEPPKAPANGLRIYALGGISEIGRNMTVFEYNNRLL  
IVDCGVLFPPSSGEPGVDLILPDFGPIEDHLHRVDALVVTHGHEDHIGAI PWLLKLRNDIP  
ILASRFTLALIAAKCKEHRQRPKLIIEVNEQSNEDRGPFNIRFWAVNHSIPDCLGLAIKTP  
AGLVIHTGDIKLDQTPPDGRPT

>RXN00877 TRANSLATE of: rxn00877.seq check: 565 from: 1 to: 1665  
MTVEHLLKPSTLPYQLPDFAAIKVADFPPAFELALAEHDAEITAIATNEDAPTWENTIEA  
LERAGLSLNRVAFFNLQGTDSPEMDEIAATIAPKLSAHSDAIFHNAALFARIEAVEA  
PADEESQRLLSHTKRAFRRRGAALNADGKARLSTINQRLSALSEQFGRNLLQDTRDLAVN  
FEESELAGFSEARI SAAADYAAAVGTEGVVPLELPTVQSEQAVLTESASRAKLYEASQK  
RGASLNKDVLLTETVRLRAERATLLGYDTHADYVIEEETADDVA AVRALLYDLAPAASANA  
KA EYKLSAEAEAEHGGQKVGAA DWSFWEAKVRARDYALDETEL RNYFPLNQVLRDGVFFAA  
NRLYGITVEPRPDLRGYAEGVDVWEVLDS DSGSIGLILTDYYGRPSKRGGAWMSSSFVDQS  
ELLGTPKPVVNVNMGITKPTTGEALLSLDEVTTIFHEFGHGLHGLLSKVRYPSFSGTSVPR  
DYVEFPSQINENWAFDPAVVRNYARHVDTGDIIPDSLLEAVEACGISDRVVEHVSTCPHL  
LSTCPVSPCPQRMPI

>RXN00905 TRANSLATE of: rxn00905.seq check: 8965 from: 1 to: 801  
MTQFENAQVLKENIENQREQIFTQLKEIVSFNSVHSDPNLLEDYAGAKEWVKETLTNAGL  
TVSEFAAEDGTTNFITGRKGSEGAPKVLVLYSHFDVVPSPGLDLWDTNPFELTERDAGHGT  
RWYGRGAADCKGNLVMHLAALRAVEASGDTTLNLTYYVEGSEEMGGGALSALIKDKPELF  
DADVILIADSGNASVGTPTLTTLTRGGGQVTVTVDLTLEGAVHSGQNGGAAPDAVAALVRV  
LDTLRDEHGRTVIDGCQHRKLEGRAL

>RXN00948 TRANSLATE of: rxn00948.seq check: 5347 from: 1 to: 1119  
MANVVLVDRMEPLVSKLFTPIQIRDITIPNRVWMSMCTYSAAATGSGPLTFDHFQAHYAAR  
AAGGVGLVMVEATGVNVPVAPISPVDLGLWSHDQIEPFSRVTAAIRAGGAVPAVQLAHAGR  
KASTDAPWNGGGYVGPETNGWETVGPSPLAFFPGLPAPRELTVSEIQEVVQQFAGAAVRAD  
QAGFDVVEIHAAHGYYLLHNFLSPISNKRRTDSYGGSLNRRARIVLEVIDAIRAVWPEEKPV  
FMRISTTDWVEENPQDDRESWTLSQSRQLALWASEHGVDLIDASSGGLDIVPIPHDRDYQ  
TAKAADLHASTGVTVAAGRIDDAQTAHNLVDSGDVNAVFLGRPLLKDPSWANQAALALG  
AEPRYVHQYDYVL

>RXN00982 TRANSLATE of: rxn00982.seq check: 8201 from: 1 to: 1506  
MPTAAAQENIRWEECPQVQDIASACGSIDVPMHYSDPSLGDISVGFVKVPAQGEKHGTI  
FGNSGGPGGDAYSFFGSQSMNWPEAMYQNYDLVAVQPRGMVGSTPVNCDNIAPGYDFLSL  
LTREGAFVKESCEIGTPGYTSSLTTDNTANDWERVRQALGDDKISIFGLSYGTYLGSVYA  
TRYPOHTDKVVLDSAMAPSLAWNGIMASQEQGYKNSLNDFFTWVAENNDTYGLGTTPLAV  
YQNSNKNIVAETGTNPTVAPPPAQVGDVPPAFAWAGQAGADMMTATNPTSVQLQGLATQL  
LNPGSNQSLSPLLNVTRAYIPQSTWPLMAGAI SGQTPIPDVTDTGDDPYVIESINASVN  
MQRMVMCNENTVAPDPVAMARMAWTSMTVGDVFDIYSVKFSSGQACSGITPTSGRQPTDG  
SQLAVQPLLLQGTSDPQTPYWTHNELADAMNAHVTVNGPGHGGQSIGGTNQAINDIVVDY  
LRTGHTDATWVEGNTPTPITAG

>RXN00983 TRANSLATE of: rxn00983.seq check: 4228 from: 1 to: 1476  
VTAGETTTMNVTLTNPFDAIFDRAVSLERPEGWQAEDVRVSI PSGESVTIPVQVTAPLV  
ADNGELPVEVSILDGADRYTGRNLTVQGGQEPAPTSVKVSI PNLDKTYVAGEKISINFA  
VNNPFDVTVNSVPSLGEENWMPANLRGFDPEQGT PNCRYKNLGANKSYDCTTTTTEVSD  
LDVERGYVDIPTVWTF TNSAGETVWSKNVDVPRVELNGTQDAVTD AIVTVDPINPVHSNG

QSQTVEVQANVTSEGDLPAGSKVAFYLDSSPIDTAAVDAEGHASISIDVDNIASEQPERT  
FEVRARLVVPEDAPRSIARDALARFTVLSEQVQNSLVIMNHPDVFSDBGQTKTIVIAAKA  
TAHDGSPVAIGTLIAFRVNGIERDVVPTNAQGTAKLQDLKPVNTEDEEYEVTVAEELDE  
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>RXN01014 TRANSLATE of: rxn01014.seq check: 9151 from: 1 to: 2601  
LTSTNLTRQEASDRSRLLSVENYDIALDLNNGDEFFSSSTVVSFTVRKAGDTFIDLRAAS  
VEEVRLDNVSIKDEALTGKNGYDETFGIALKGLTPGAHTLRVTASIPYSRTGEGLRHMV  
DPADNEVYLYTQFETADAKRMFACFDQPDCLKATYDLNIKTPKGWKIISNSEQQVSTQHTD  
YDTHISRVDYPLSTYLIACAGRYHEVCVWKGTLTHHAETPADQPTELTVPLALYCRSS  
LAKDLDAVRLFTETKQGFWDYHRNFGVAYPFGKYDQIFVPEFNAGAMENAGAVTIRDEYV  
FASKATRYRYERRAETILHELAMWFGVLVTMQWDDLLWLNESFATWSAAISQAEETYN  
TAWVTFANVEKSWAYQQDQLPSTHPVFSGDYDIETVDQNF DGITYAKGASVLKQLQAYVG  
REEFLAGVRRHFANHAWGNASFDDLLGALEQSSGRDLSWANQWLKTTGINTLGAKFTTD  
NGKYTSFSVTQTGAAPGAGELRTHRIAVGLYKLVDSGLNRYARVELDCSGASTSVEEIVG  
LEQADFLVNDLTYALLDLDDSRNFVIDNIDKFS DMPRTLWWSAAWEMTRAGQMK  
RDFIALVARGAAETEIAVLERILAQATSALKSYADPAWAEATGNDLLADAFLEGARSAE  
PDSDTQLAFIQALAKATLNDAAADYFRDILAGNVEGLTVDPDLRWWALTALIARGDIEAV  
EDAIAAELSRDNSSASFLASLRAGAAVNTEEKAAAYKHVTAVDSGLSNLELRHKIEGLT  
FTGSSELLQAYNEQYFEILDDVWANFSGEMAQQIVLGLFPSWNVSEGLKRTDEFLDGEH  
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>RXN01046 TRANSLATE of: rxn01046.seq check: 5893 from: 1 to: 1779  
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ATDPSNKKV IIFIDEIHQIAGDQSSHSGSQAKVAQILKPYLARGDLRVIGATTTQEARDFD  
HDPALKRRFSRVNVDEFDRDQTLTILHAARDGYLKHFNNAVTVSDDVLGYVYTYSQQFNP  
GNTAQPDAAALTFLDKALASLTMEKQRLINNHVIAPSLKFPVSE RHIHNTARKLAFGSQVP  
ASINTDDARDKLETFLGQDH IIEPVLTAIKREQLGIFPRTKPLSWVFAGSSGVGKTEMAR  
ILSRAINGGDP I IINGPEYIS PESITGLIGSSDGYIGSNSKRAKPLDPLISNPRQVIVLD  
EFEKSHPHFQQLFMAALDTGTMMANGTTLNFSQAI I IATNAARDKIGRDSFGFDS DNS  
GVLGSAQAATDPRAQERLKSLSKDFLLNCSTVSRISLPSTALMQAPT VRFWTISTSVAV  
TPCCLATPHYAAQIPADIDS DTL DQLVETTFISDFGARPAARTIEDHIASLLM

>RXN01120 TRANSLATE of: rxn01120.seq check: 6283 from: 1 to: 1278  
MARMQESADLLKCSFCGKSQKQVKKLIAGGAVYICDECIELCNEIIEEELGQAQHDEQER  
NELPKPSEISAFLD TYVIGQDPAKRILSVAVYNHYKRLRASETIGRRRNDEPETELVKS  
ILMLGPTGSGKTFLAQTLAKLLDVPFAIADATSLTEAGYVGEDVENILLKLLQAADF DVE  
RAQRGIIYIDEVDKISRKSENPSITRDVSGEGVQQALLKILEGTVA AIPPQGRKHPNQD  
FIQLD TTNILFIVAGAFSGLEKVIADRNGKKGLGFGVEVSSKKEEANIVDIFKDVLPEDL  
VKFGLIPEFIGRLPVVATVSNLDQKSLVKVLTEPRNSLVKQYRRLFEMDDAVLTFTDDAL  
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AEEKTA

>RXN01145 TRANSLATE of: rxn01145.seq check: 748 from: 1 to: 1014  
MAIELLYDADADLSLIQGRKVAIVGYGSQGHASQNL RDSGVEVVIGLREGSKSAEKAKE  
AGFEVKT TAEAAAWADVIMLLAPDTSQAEIFTNDIEPNLNAGDALLFGHGLNIHFDLIKP  
ADDIIVGMVAPKGPGLVRRQFVDGKGVPCLI AVDQDPTGT AQALTLSYAAAIGGARAGV  
IPTTFAETVTDLFGEQAVLCGGTEELVKVGFEVLTEAGYEPEMAYFEVLHELKLIVDLM  
FEGGISNMNYSVSDTAEFGGYLSGPRVIDADTKSRMKDILTIDQDGTFTKR LIANVENGN  
TELEGLRASYN NHPIEETGAKLRDLMSWVKVDARAETA

>RXN01152 TRANSLATE of: rxn01152.seq check: 1196 from: 1 to: 834  
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DYLCFRHLMDVHVLMPRGAAVIYPKDSAQILVEGDIFFGARVLEAGAGSGALSMALLRA

VGEKGNVISYEIREDHLEYAVSNVEEYFGERPATWDPRLGDLKEVTVEDLGGPVDRIILD  
MLEPWEMLETCKDLLIPGGVFMTYVATVPQLMKVMEGIREQKCFTEPRAWESLVRDWKVE  
GLATRPEHRMNAHTAFLVLTRRLADGVEPPRPQRKARR

>RXN01166 TRANSLATE of: rxn01166.seq check: 5407 from: 1 to: 1305  
MGYTNLNDTRVLRAAGSCDAWRTMSPLVQQGSEAVFRRIMGLSRRPDRKPGFDDVPHFGA  
AVRVPGLKHGTLVNAAPLKVLGARGEPNPASSYRFEYITGDSAGRAITATGAVLFSTRPW  
TTGPRPAIAMAPSTQGVAQHCDPSHTCAIGLNAFYDKPFDAAIAYELPVILWFLAHGLDV  
VFIDYPRDPATGVQYYCDSIAAAKSLDDAVLASRQLGLSPEAPLGLWGFSQGGGATGWAA  
QLQDYAPDVRPKAAVVGAPPVDLFRVLDTVDGGLLTGVIAYAIAGLAVNSSEMFEIIMSV  
LNERGVSDVLKNITSCAGGSLASGYSSSRGWTHQGTPLADILDDLPLVVAEFGKQKLG  
VAPEIPVLLWGSKNDDVIPIDPIRELRLDSWADKGTPLTWESQAPRVPGRGTGLNHFGPYF  
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>RXN01181 TRANSLATE of: rxn01181.seq check: 3409 from: 1 to: 957  
SVLLARDLVNTPSSHLYPESYSVIASNEASKHGLQTTILDEKQLADQGGGILAVNGSS  
RKPRLLRIDWKPRKAKKSIALVGKGITFDTGGISIKPGASMENMISDMGGSASVLATIIA  
AARLNLSINVFAFLPMAENMPSGDAFRPGDVITHFGGITSEILNTDAEGRILADAIAYA  
SEDKPDYLIDAATLTGAQLVALGLRTSGVMGTDEFDRDSVAKTGREVGEQAWAMPLPEELD  
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ATGQPVRTFVQVLKDLSES

>RXN01226 TRANSLATE of: rxn01226.seq check: 8697 from: 1 to: 540  
MGDVNNSPLLVLVGLGNPGPKYVGTNRHNGFEVAAELVSRFSGFSVHKRSNTDIAQLPGL  
IVAKPRSFMNLSGTPIRALCDFFKISPANVIVVHDELELDFGSKLRQGGGDHGHNLKS  
TSKSLGTDYWKLSMIGRPPGRMDPASFVLKPFKGQELADIPIMAADAADLVEKHLQQG

>RXN01267 TRANSLATE of: rxn01267.seq check: 8891 from: 1 to: 1314  
MYAEINGGFIPEGTVRVSGAKNSATRLLAAALLTDEVVHLGNFPTKLVDVEHKIRFIEEL  
GGKVHVDHDEQILVVDADKDLAAREMTTDELNIPIRTTYLLAAQIGRGEIARVPFPGGCA  
IGGGPAGGRGYDLHLMVWEQLGCKILEKDDHIEVTAPQGFIGGVDFPISTVGGTENALL  
CASIASGDTKIANAYITPEITDLIELLRMGAEITVYGTSTRIHVKGAGLLQGAYMDVMP  
DRIEALTWIVYGIISGGRTVEGVPFSSMEVPFIHLEKAGVDLFRNSSSVYITPECLPSG  
SVQPFELACGTHPGVISDMQALFVLLGLKGAGTSRVYDYPRIAFVEELTNLVSGDKL  
SAEAGKITIQGDATFRPGYANSTDLRGSMVAVLAALCADGKSTINNVHMLRGYNELDKK  
LRLLGADLTIREGEVPS

>RXN01277 TRANSLATE of: rxn01277.seq check: 992 from: 1 to: 2004  
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KLYNFWRDAQHPRGVWRTTTLESYESDQPEWDVLIDVDALAEDEGENWVWKAVVRSPEF  
DRALVKFSRGADATVIREFDLATAAFVDDSPFELKEAKSDVTWVDLDTLLVGTDTGEGS  
LTDSGYPARVLTWKRGTPLEQAELFFEGSRQDVATHAWRDSTPGFERTFVSRSLDFYNSE  
TSLETEGGLVKLDVPTDCDVIVKKQWIFVSPRTDFAGIPAGGLGVLLLKEFLEGGRDFQP  
VFTPTTESTSLQGLATTKNFLVLTLNNVSTEIVTVPLNDPTTEHEHIDLPEHVTAHVVAT  
SPLDGDEIIVVQAASFTEAPTLLRAELPGALEAVKKAPLQFENAGQETRQHWATSADGTKI  
PYFITGAFEEEPQNTLVHAYGGFEVSLTPSHSPTRGIAWLEKGYFVEANLRGGGEFGPE  
WHSQATKLNRMKVWEDHRAVLADLVERGYATPEQIAIRGGSNGGLTSGALTQYPEAFGA  
AVVQVPLADMLRYHTWSAGASWMAEYGNPDDPEERAVIEQYSPVQAVVGVEKRIYPPALV  
TTSTRDDRVPAPAHARLFAQALLDAGQAVDYENTEGGHAGAADNKQTAFTVESLIYTWIEK  
TLDQQGSI

>RXN01302 TRANSLATE of: rxn01302.seq check: 612 from: 1 to: 453  
MTTTTSSGKSSEKINPLFKLGSFLRKGTVGSEGGQIFLQGGQADVRYNRWAFDKVRS  
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IRYPYIGGVLVDMSAKPRNAWAIRCWRGATL

>RXN01308 TRANSLATE of: rxn01308.seq check: 3036 from: 1 to: 2403  
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 PAMSQVSYGAGTRFLQMIGGVALSFYDWYADLPPASPQTFGDQTDVPESGDWYNSSYLMM  
 WGSNIPVTRTPDSHFMEARYKGTKVVVVSPDFADSTKFADEWARIHPGTDGALAFAMGH  
 VILKEFHVDKKTPTYFMDYMRKYTDSFPLVELDEHGDGTYTPGKFLTADRAADISPALAAT  
 PNATHRLLVLQKDGSSVDPGGTVADRWGEEGMGKWNLRDLGVDPVMTIADVQTDTEAEV  
 LFFRFDLPATATQEGPIGAGTISRGVPTITLNGRKYTTVFDVLLAHYGVNREELNLPGEW  
 PKDFQDPVMGTPAWQEELTGVPANQAIRLGRFAQNADDSKGRSQIIMGAGVNHYFHADS  
 IYRTFLALTSMCGTQGVNGGGWAHYVGQEKLRPMNGWAQYAFATDWQRPPRQMITTGFYY  
 LTTDQWRYDNTRANRLASPLANRGTVGDKMTADTLVESMKRGWMPSPFPQFNRPILLSQE  
 AEEKGVSVSDHIVQQLTDGDLQFACEDPDAPENWPRIILLNWRNTNLMGSSAKGTEFFLRHM  
 LGVDSASAEENAPEDRPSSIVWRDEAPEGKLDLMLTTDFRNTSTTLVSDIVLPAATWYE  
 KHDLTSTDMHPFIHSFNAAINPPWETRTRDWEVFDLTKEFSSQAATWLGTTQTDVITAPIA  
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 GTAFNVTKQTEELALINGTSI

>RXN01309 TRANSLATE of: rxn01309.seq check: 2947 from: 1 to: 801  
 IADHEGTHINWDMVKERSAEVITSPEWTGSKKDGRRYTAFSINIEYDKPWHTLSGRMHYY  
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 YYDNLHVLSISRGGQVIWMSNKDAEKLGIADNDWIEAYNRNGVVSARAIVSHRIPEGTVF  
 MNHAQERTAGTPLNEKSGRRGGTHNSLTRIMIKPVHVAGGYGHLTYGFNYIGQPEITAMR  
 SPEFVAAPRRCTNEGHGSDRNDHEL

>RXN01386 TRANSLATE of: rxn01386.seq check: 2161 from: 1 to: 930  
 MWEHGNARALLPLDIRTIDDRPMQASETNLHLPMSRMASVFGTSQFVERSESFISENPTG  
 VVAIFFATEGEAVFFHRGGHVALRPGQAIYVDADRPFRLRGFNNRFRELVLTIQRYLEI  
 VGSKGPPLPAIFEFGATGTANEQALARLVQESLHRIESGEPKHIDSSGPLGKPSWDIEHE  
 AHGLIRNVLGDATSSEGLISAAQRFIDINISESDLQASRIAAAVGISERQLSRIFSMSG  
 QTIGRYVLNTRLDFAKEALSTPERDKVSVSEIGKRGFASPSHFSRTFRERFEMTPLQWR  
 KESQRQSFQE

>RXN01461 TRANSLATE of: rxn01461.seq check: 3776 from: 1 to: 612  
 MIDTGKNGEFRIEQSNIIDQNEAEFGITPSQTVGPYVHIGLTLEGAEHLVEPGSEGAVSF  
 TVSATDGNQDPIADAMFELWQADPEGIHNSDLDPNRTAPATADGFRGLGRAMANAQGEAT  
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 KTDDGFRFDITVQAEDNETPFFGL

>RXN01466 TRANSLATE of: rxn01466.seq check: 3249 from: 1 to: 960  
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 APTGFLILVGHSLGGLTALNLVKRADHSLRKRIVGMVLVATSIESLSTQGLPQVLASPLA  
 DNIKNAVEAAPNDAQKFRQYATTFAPTALATAVFQRTDNDEVIDFHAAMIHETPLDTFVG  
 FFDDLQEHDELDAAPALEGLKGYVLAGELDVTPISQADRICEVWPGARLQIAEGAGHML  
 PLEAPGILNNAIGNILDGLG

>RXN01499 TRANSLATE of: rxn01499.seq check: 1314 from: 1 to: 3822  
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 AFDASCEEMWLAWSHGACLVPAAPRSLVRSGMDLGPWLIRRDISVSTVPTLAGLWPAEAL  
 SQVRLLIIVGGEACSQELVERLSTPDREVWNTYGPTEATVVACGTQLYAGQPVGIGLPLAG  
 WDLVVVDDAGEPVGIGEVGELVIGGVGLARYLDPEKDREKYAPLKSXGWTRAYRSGDHVR  
 LEEDGLYFVGRVDDQVKIGGRRIELGEVDANVAALSNVRSSAVVVQTTGADQKVLVAVVS

LEDAAAGFDHNVATARLTETMPAALVPRIHVMDLPTTSGKVDKSLPWPLPGTVVEAN  
 DLSATEAWIAQEWDILGTSVSSKDADFFSLGGTSLAAATLVGRVRAKVPTAAVRDLYDH  
 PRLEKFAERVEAIAADTGISLEAPNQVEERVVKPVSFGRVMTLIQIPIMTLQAAQWIA  
 WLLGNNIMAALDFDWAVHVSWWLVIGMILVFATPIGRPLIGGWGARIITRGITPGSYPR  
 GGSTHLRIWSAERLADASGRNISGATWVNYFARSLGVKMGKVDLHSLPPITGLLTGN  
 NVSIEQEVDLRGYWLDDILRVGTIEVHDNARIGARSTLLPGTVVGTGAHLLPGSTVTGD  
 KTIKPGSRWAGSPAQKVGRAKHRFPTSHPPRRSRWVPVFGATSIVLSLLPLQALAIGAAI  
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 VWAVQRLMDDARTYLFPLYASQLTPLWFRSLGAKIGKDVEISTAVMVPKLADIREGAFLA  
 DDTLIGGYELGNWLLSGETRVGKRSFIGNSGIAGPERKLAKNSLAVLSSTPKKAKANS  
 NWWGSPPERMRRVTVEVDEGEAKTYSFGFGVKFARGAVETARLLAPITSGVLAALSLLL  
 QYLLTEFNMWITWLLGGLILMTVGVLAMGITVVMKWVCVGKHKPSEHPLFSRFVWLNELQ  
 DAFVESVAGPWFLVPLNLGTGALNAGMSALGAHIGRAWIESYWLPELTDLCYIGKGATVGP  
 GVVVQTHLFQDRVMSLDTVTVADGATLADHSVALPASLIDASATIGPGSLVMRGDKVPAH  
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>RXN01555 TRANSLATE of: rxn01555.seq check: 3558 from: 1 to: 960  
 VNKGVVLVAGGFSQNPRLMKYMPEPTPQFSRTNESATGDTMALAAKVGARLGDDNGENA  
 LWFPSISIGTRADGSTAVYPHIWRGRGLGVIAVNAAGERFVDESVSYHRFVRAMYENKTT  
 PTVSAWLIVDSHTLAKYGLGMITMPLPKLALQKYIDSGYLHAGSSLELARSIGVDARG  
 LEQTVKRYNTFAKTGIDEDFHKGELLFGQAAGDPDNKPNPNVGPICKGPFYAIADVPTPL  
 ATAFGISINPNGQVSEDEGEPIIGLYSAGNDAQSVMASEYPGAGSQVSGMTEFGWIAAQH  
 AVGKAGKSGGAKAGYAASSK

>RXN01608 TRANSLATE of: rxn01608.seq check: 9638 from: 1 to: 1839  
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 FDGLQADSVELTLDSDVSRDTIATANFSVWVKLPDRDREVSYSMTLTKMRNEWTVRWEP  
 SLVHPKLGANQHLELRAIEAQRANVISSDGAPVLAPGSIYRVLDPSAGDADVVKRVAD  
 YLNEAHATDENVTLDVEDIMSNLGDSTYSLTTVDANLGARMEQDLAGIPGLTFNEEASM  
 VATDPGFAPDIVSRVARIVEDELEGSNGWRASIVTSNGAVIDDIAYDAPELAPSVRISLD  
 HNVQRAAEEAVDLRAEMKAMMVMPSTGEILAVAQTDDEADKGDVALMGQYPPGSTFKI  
 ITAAAGLAHEGLTPDSIVPCPGTMNIYGRIVTNYNSFSLGNTSLDDAFANSCNTTFADIF  
 HHLEPGQLKNVAKQFGLGIDYQIPGLDGMTGVSPEGDIVLDRTESGYGQGLDLASPFQMA  
 LVASTAATGSVPTPTLISGHETVASEEVLALDPEVLANVQRMMSVNDGTARGMRQTGG  
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 EVAVSEAEQPVG

>RXN01619 TRANSLATE of: rxn01619.seq check: 4967 from: 1 to: 975  
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 LVAMPFSAISLLDFLDMKPGEWLIQNSANGAVGRMLAQLAESRGIHVVGVLVRRDAGVQEL  
 AAQNISGVVSTETPGWEKQVEDITGGASIAVALDSVGGSSAADLVKLLGEGGTLVSFGAM  
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>RXN01653 TRANSLATE of: rxn01653.seq check: 1458 from: 1 to: 1461  
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 DGLFIADVLTGYDVYSSNEAALSSGAQVPVNDPILLVSAMAYATKNLFGGITAGTAYEH  
 PYPFARRLATLDHLTNGRVGWNVVTGYLPSAAQNMGDTDQLPHDERYDKADEYLEVIYKL  
 LEGSWEDDAVQNNTESTVFTDSSKVHAINHHGKYFDVPGIAITEPSVQRTPIYQAGASP  
 RGLKFAGENAEAVFINSSTVEAITKTVAKIRAAVAAGRDPHAVKIFAMQTIITGETEAD  
 AQAKLEEYSRYIDPVGGTLTMSGWTGADLSQYDLDEPITNIESNAIQSTAATISNGTGEG  
 AWTVRKLGEATGIGGFGPVLVSGGANVAELARIQDLSDVDGFNLAYAITPGTFEDVVDF  
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 VSQGAHS



>RXN01974 TRANSLATE of: rxn01974.seq check: 7604 from: 1 to: 1785  
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 RKHEGHELVLVDFEFHQIVQLSNAAVEAIKPILAMSGVLGVRVIAATTLEEFHEHIRPNQ  
 ALTERLQEIIRLTPTDQKTTVAILRGMADRYGVSDQFYDDHVFEQIYSTTERFMPSSVQPR  
 KSIRVLDAMVGWHRLSGKPMMDLLGDVLHDAIGVDIAFKVDGTSIKDKLDEKVMASQLA  
 TTVVARRLQLVVADLHDKSRPLSNFLFTGPTGVGKTELKQLARVLFGDDTGRILRFDM  
 EFALESSLDLFRSELTRRVADQGNAILVLLDEVEKADRAIARLLLQVLDDGRLSDDYNREV  
 SFLNTYIVMTTANAGSEIFETISNYATDDTGDGRAIKDFVKNIHSTSIKNKGFPPELLGRVD  
 EIVPFQPLSETTQDRIISKKLQDVATEVYERHGVKLHCSQKVMFEFLVDQVEESAESGGA  
 RGA VRSLQREVVTVEATFINTYPEVRDIYVDVDGQMRNKTNRVSTARVVIKRVEG

>RXN01993 TRANSLATE of: rxn01993.seq check: 8105 from: 1 to: 1128  
 MTLSEKLTITAKILPHPLNAWYVAAWDYEVTSKKPMARTIANKPLALYRTKDGRAVALA  
 DACWHRLAPLSKGLVGTGDIQCPYHGLEYSAGRCMKMPAQETLNPSAAVNSYPVVEAH  
 RFVWVWLGDPTLADPTQVPDMHQMSHPEWAGDGRITISADCNYQLVLDNLMDLTHEEFVHS  
 SSIGQDELSESEFVVTHTEDSVTVTRWMHDIDAPPFQKNMNDKFPGFEGKVDRWQIIHY  
 YYPSTICIDVGVAKAGTGAQEGDRSQGVNGYVMNTITPDSRSSHFWAFMRNYRLESQT  
 ITTQLRDGVSGVFKEDEDMLTAQQDAIDANTDYEYSLNIDAGGMWVRRIEEALSKEGR  
 LDIPTTFFPRATPKPEA

>RXN01997 TRANSLATE of: rxn01997.seq check: 5274 from: 1 to: 486  
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 HLLDRDYTPQIGDIAPPKLDVTSIAIEAFEASLAHEQKISGLIRELAAIQDAEKDYDSRAL  
 IDWFLNEQIEEEATVGEIIDRLRIAGDSGSGILRIDGELGSR

>RXN02001 TRANSLATE of: rxn02001.seq check: 4280 from: 1 to: 1158  
 MPVINSIASFSDEMTRWRRHLHQNPESISFCVETAFAEQLRSFGVDEIHTGIAKTGII  
 ALIHGREAGPVVGLRADMDALPLTEITGVGYASTTPGKMHACGHDGHTTMLLGAAYLAE  
 TRNFAGTVALIFQPAEENGSGAGVMVDEGVLDRAFAIEVYALHNQPLPLGHFMTTAGPI  
 MAAVDTFDINITGRGGHGAQPHQTRDPIVAAGVIVQAFQTIVSRNHNPNVEDLVVSVTQIH  
 TGSADNIIIPETAYINGTVRTFNKDVQAMVITRMEIIVAGQAAAYGVEATLTYNRNYPATI  
 NDAAKAAIAAEVAGEVGLGVNPNNGSRGMGAEDFSYFLEKRPAYLFVGNNGDSAGLHNPAY  
 NFNDEAAPYGASFLARMAERPLPLKG

>RXN02053 TRANSLATE of: rxn02053.seq check: 1600 from: 1 to: 579  
 MSLSVVEAITNRRATRKYTDEAPTPELIDKIVDLALEAPSAFNAQQREIVVITDPAQKQK  
 LYEASHQKQFLTAPVTFAVARVENEPEDLEEILGTERAERVAGFINGRSIQQAREATLR  
 DASLAAFLILAAQAEGLSTSPTTGWDEEKVKEAIGLGGREDRAIALVIATGFPNEQPEH  
 PGRLQNRIDNSY

>RXN02146 TRANSLATE of: rxn02146.seq check: 3577 from: 1 to: 627  
 VGKHRNNNSNATRKAVAASAVALGATAAIASPAQAEEVVVPGTGISVDIAGIETTPGLNN  
 VPGIDQWIPSLSSQAAPTAYAAVIDAPAAQAAPAASTGQAIVDAARTKIGSPYGWGATGP  
 NAFDCSGLTSWAYSQVGKSIPTSSQAQAAGQTPVAYSIDLQAGDIVAFYSGATHVGIYSGH  
 GTVIHALNSSTPLSEHSLDYMPFHSVRF

>RXN02274 TRANSLATE of: rxn02274.seq check: 3347 from: 1 to: 1710  
 MSFEISRKQYTDLYGPTVGDVRLADTEFLCVEKDYYAIGEEVAFGGGKVIRDMGQNG  
 TLVRDVIDPDTVITNVIVLDYTGVIKADVALRDGKIFRIGKAGNPNVMENVDIVIGVATD  
 I IAGEGKILTAGGIDTHVFLGTDQVNTALASGITTMIGGGTGPSQASMATTVTGPQWNT  
 YNMLSAFEGMPMNFILGKGHGSSKSPLAEQVRAGAIGLKI HEDWGATPSSINTALEVAD  
 DMDIQVALHSDTLNEAGFVEDTIEAIAGRVIHTFHTEGAGGGHAPDLIRVAALPNVLPAS  
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LG

>RXN02589 TRANSLATE of: rxn02589.seq check: 3006 from: 1 to: 765  
 MSISDNSRDQLGELPAGRPLQSDFDNDLDYPRLGSVTFRRGTLTENQQTMMWDEKWPELGR  
 VLEDELIDVDWFGREGAKTIVEIGSGTGTSTAAMAPLEADTNIVAVELYKPGLAKLMGS  
 VVRGEIDNVRMVRGDIIEVLNRMFADGSLDGIRVYFPDPWPKARHNKRRIIQSGPLNLFA  
 KKLKPGGVLVHATDHADYAEWINELVEVEPLLEYKGWPWEECPQLTDRQVITKFEGKGLE  
 KDHVINEYLWQKVQN

>RXN02704 TRANSLATE of: rxn02704.seq check: 1921 from: 1 to: 1689  
 MTTGASKKPARPNTGAKTRTGLGIRERISGAWNDLLARPLTDYIMILCIVVILSCLGVVM  
 VYSSSMTWSLREGGSVWGTAVRQGIMIVLGFFAMWVALMTRPQTIRNLSNLILIVSIVLL  
 LAVQIPGIGTGKEEVGSQSWIALGPIQFQPSIAKVAIAVWGAHYLAGKGPVQHWFNHNL  
 MRFGGVGAFMAFLIFMEGDAGMAMSFVLVVLFFMFLFFAGIAMGWIAIAGVLI IAALAVIAL  
 GGGFRSSRFVEYFDALFGNFHDVRGIAFQSYQGFLSLADGSGLVGLGQSRKWFYLP  
 KNDIFAIIGEELGLWGGALVIALFAGLLYFGLRTAKKSHDPFLGLMAATLTASVVSQAF  
 INIGYVVGLLPVTGIQLPMISAGGTSATITLASMGLLISCARHEPETVSAMASYGRPAID  
 RLLGLREPSSTLTTSNASLRSNKTKAAKQKPSPKESRDRFGEPVTARRAQAPRSGRAGV  
 QSEAPRRSTGSKVRSSGQDNRSNEGRTARSQSTTGGRADRSVDRSRQSRPTERRSESR  
 AMIGVTTATADKCEIRRTTNKDG

>RXN02707 TRANSLATE of: rxn02707.seq check: 464 from: 1 to: 1530  
 MTLGEIADIVGGRLTGGAQEDTLVSSSVEFDSRSLTPGGFLFLALPGARVDGHDFAATAIE  
 KGAVAVLAAREVDVPAIVVPPVKIQESNADIYAHDPDGHGAHVVEALSRLARHVVDICVA  
 GHQLNVVAITGSAGKTSTKDFIATVLDQDGPTVAPPGSFNNELGLPHTALRCTTDTKYLV  
 AEMSARGIGHIKHLTEIAPPRIAAVLNVGHAHLGEFGSRENIAQAKGEIIIEALPSKKTSS  
 VPVLNTDPFVARMAPRTKARVVWFTTDAQQAQKSDYWATSISLDAVARASFTLNTKDGSW  
 PVTLQVFGEHQVANALAAAAIAMEAGVAPELVVAGLEAHSAAAHMRMDVKTRADGVTIIN  
 DSYNANPDSMRAGIAALAYTASGRSEATSWAVLGQMGELGDDASEAHAELGAELAKYNVQ  
 ELVAVGENPNCAALAESASLVSTHVVSVDVDALELLAGHIKRDDVVLVKASNADRLWR  
 VAEALHGMVPLKNTGGSVNDDSRNVEGQ

>RXN02723 TRANSLATE of: rxn02723.seq check: 9251 from: 1 to: 666  
 VNKKVIAIVVGVVVVLVAIILGVVAVFVPIKLVGNIEVTGATRTYDPQVLEVSGIVEGKNL  
 FRVDATAAGQNIWELPWVKSVTNRLPSTITVELTEREPAVFIKRADGDHVIDTEGKEI  
 IIGTPPVGTVEVSGADEGNSEVLPAVIAVINAIKAQDAQMTESIQQVEAPDQFDILLKMN  
 DGREIYWGSSENNHDKAVAMSTVLKREGQRWNISFPMVTVR

>RXN02813 TRANSLATE of: rxn02813.seq check: 4724 from: 1 to: 999  
 VEAALAVAAPEHAAMAKATIDSYQLDVEELSRRAAEGGNPLIPLVTDLKAINPAGIHIG  
 ATSQDIIDSALMLCMKEGVGEVVDKLKKLARDLAELTAHKATPIMGRTLQGIATPTTFG  
 ALTGGWLVAVDNAARALEALEFPVSYGGASGNMTAVHPRGFIEIQAELAEELGLFDPQVWV  
 HSDRTPITAIASALATAAGVVRKIAGDVVFYSQTEVGELREKSPGGSSAMPHKANPAAAI  
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 VNVDMASRVNGPTGHAEDLAERALEIYGKGRS

>RXN02820 TRANSLATE of: rxn02820.seq check: 6804 from: 1 to: 1311  
 MKVTQSTFLKSVAFTVAALTLTISSCSSGEDTSASSTDTENSSTQAAASPPLAPCELPA  
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 TAADALVTAQFVLGLTEPQSSGLGGGGYILYYDAEANAATAIDGRETAAPVAADENYLIHV  
 SAEDQTAPVPDARRSGRSIGVPGIVAALGQLHDSFGKTSWQDVLTPPQQLATDGFSISPR  
 MSASIANSAEDLSHDPEAAAYFLDENGDAKAPGTLQNPDYAETIRLISEGGPDIFYTGE  
 IAADIVERATREVDGFTPSLMSTADLAAYTPETREALCAPYRDKIVCGMPPSSSGGVTVM  
 ETGLILNNFDLAQYPPTEVGLDGLPNAEAVHLISEAERLAYADRDAYIGDPAFVEVPAG  
 GVQQWINHVHTGEHSLK

>RXN02839 TRANSLATE of: rxn02839.seq check: 5996 from: 1 to: 447  
 CVVNDYADRFKFDGHVKRTANRPLPSGAVTEKEARALFVVLVLISFLLVLTNTMTILLST  
 AALALAWVYPFMKRYTHLPQVVLGAAGWSIPMAFAAVSESVPLSCWLMFLANILWAVAY  
 DTQYAMVDRDDDKIGIKSTAILLANTIN

>RXN02908 TRANSLATE of: rxn02908.seq check: 6002 from: 1 to: 261  
 LKLHPEVLERAIAIDIKGVTAACVVGIPDPRLGQAIVAAYSGSISPSEVIEGLDDLPRWQL  
 PKRLKHLESLPSIGPGKADRRRAIAKLF

>RXN02913 TRANSLATE of: rxn02913.seq check: 5023 from: 1 to: 486  
 MIPGEYILSSESLTGNVGREAKTIEIINTGDRPVQIGSHFHFAEVNPSSISFDRSEGYGFR  
 LDIPSGTAVRLEPGDARTVNLVAIGGDRIVAGFRDLVDGPLEDLKVNVWEGREDGWRRSS  
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>RXN02937 TRANSLATE of: rxn02937.seq check: 1915 from: 1 to: 402  
 VISNGEGPVVALRGDIDALPMAERSGKEYAATGVTQVDNTTGQETPVAHTCGHDVHISL  
 LGAVQAFNSHRELWNGTLMVVFQPAEETAAGARMMAQDNAPGNHSPAFAPDMQPTLDRG  
 VEALVVAASAWLVK

>RXN02944 TRANSLATE of: rxn02944.seq check: 4495 from: 1 to: 678  
 VNAQNLIDPEHSMGQATAGVSQNPVMAALPESGTSHISIIDSYGNAASLTTSVEAAFGSF  
 HETRFGFILNNQLTDFSAEPLDEGEFVANRVESAKRPRSSMSPMLVFNASGDGEIADLNM  
 VLGSPGGSLIIQYVVKTLVNIIDWMDPQQAVSAPNFGAMNQPKTGLGSEHPLIANDSAE  
 LVSELESKGHEVNVGEQSSGLSALVKNGDTIVGGADPRREGVVVLGG

>RXN02952 TRANSLATE of: rxn02952.seq check: 9893 from: 1 to: 516  
 MSSPALDAAKQRLAESDGLIAVTPVFTASYSGIFKMFDDVLDPKTIVGLPTIIAASAGTA  
 RHLVLDHAIRPLFTYLRVAVVPTGVFAATEDFGTEAGADIERRVNRAAGELATLMLQDY  
 SSVQGLGGATANQDADLSFRRTTGVTGPGENFSSFADLSQRTRRKRLNSRISV

>RXN02972 TRANSLATE of: rxn02972.seq check: 3943 from: 1 to: 411  
 VEIARDYVAERIQEVKAIVPISKAKTFVGCAGTFTTISAWVQGLESYDRDAIHLSALNFD  
 ALRVVTDEIISSESSQRASNPPVDPGRADVIGGSSVVVQAAIDLASKEAGVDYIIISEKD  
 ILDGLILGLVEADSLKK

>RXN02973 TRANSLATE of: rxn02973.seq check: 9389 from: 1 to: 654  
 VSDAGKKDSSKVEIGLTGRPLRELPEPSPLEKHGPATIIAMANQKGGVGKTTSTINLGAC  
 LAEAGRKVLVDLDPQAGALTAGLGIHYDDVDITVYDLMVDNNSTIDQAIHHTGLPDLQV  
 PANIDLSAAEIQLVNEVGREQTLARALRPVMKDYDFIILDCQPSLGLLTVNALACAHGVI  
 IPMECENLSLRGLALLTDTVEKVADRLNFDLEILGILV

>RXN02974 TRANSLATE of: rxn02974.seq check: 3965 from: 1 to: 195  
 MQDLYSDPGELKPGAQGGFSALIDGDTLVISGGDAGATPVAALRTALDVAWAATEQSPRY  
 ALIQR

>RXN03000 TRANSLATE of: rxn03000.seq check: 5213 from: 1 to: 567  
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 RMLESWGLLDQIVVAGYLPEDMQFRDAVNRETIITMRFDDEEFQQHYGGRYLVIHRSDDL  
 ILVTNAEAAAGAKLHNGVLVTDSTVDGGIEVDIESSINKGEDNKTLLVDAFLAFDGIHSV  
 MRKKLVDDA

>RXN03026 TRANSLATE of: rxn03026.seq check: 3330 from: 1 to: 267  
 MPGKILLNPNLNLMLGKREPDIYGHDTLEDVVALATAEAAKHGLEVEALQSNHQGELID

ALHNARGTHIGCVINPGGLTTLRWRFWML

>RXN03028 TRANSLATE of: rxn03028.seq check: 9204 from: 1 to: 2775  
 MFERFTDRARRVIVLAQEEARMLNHNHYIGTEHILLGLIHEGEGVAAKALESMSGISLDAVR  
 QEVEEIIGQGSQPTTGHIPTPRAKKVLELSLREGLQMGHKYIGTEFLLLGLIREGEGVA  
 AQVLVKLGADLPRVRQQVIQLLSGYEGGQGSPEGGQGAPTGGDAVGAGAAPGGRPSSGS  
 PGERSTSLVLDQFGRNLTQAAKDGKLDPVVGRDKEIERIMQVLSRRTKNNPVLIGEPGVG  
 KTAVVEGLALDIVNGKVPETLKDKQVYSLDLGSLVAGSRYRGDFEERLKKVLKEINQRGD  
 IILFIDEIHTLVGAGAAEGAIDAASLLKPKLARGELQTIGATTLEDEYRKHIEKDAALERR  
 FQPVQVPEPSVDLTVEILKGLRDRYEAAHHRVSITDGALTAQAQLADRYINDRFLPDKAVD  
 LIDEAGARMRIKMTAPSSLREVDERIADVRREKEAAIDAQDFEKAAGLRDKERKLGEER  
 SEKEKQWRSGDLEDIAEVGEEQIAEVLNWTGIPVFKLTEAESSRLLNMEELHKRIIGQ  
 DEAVKAVSRAIRRTAGLKDPRKPSGSFIFAGPSGVGKTELSKALAGFLFGDDDSLQID  
 MGEFHDRFTASRLFGAPPGYVGYEEGGQLTEKVRKPFSSVLFDEIEKAHKEIYNTLLQV  
 LEDGRLTDGQGRIVDFKNTVLIFTSNLGTADISKAVGLGFGSGSSETSDAQYDRMKNKVH  
 DELKKHFRPEFLNRIDEIVVFHQLTKDQIVQMVDLLIGRVSNALAEKDMSIELTEKAKDL  
 LANRGFDPVLGARPLRRTIQREIEDQMSEKILFGEIGAGEIVTVDVEGWDGESKDTDRAK  
 FTFTPRPKPMPEGKFSEISVEAAEAIQDVDSAADGDPETDLSLSDIDLETLEKFEEDVEN  
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>RXN03036 TRANSLATE of: rxn03036.seq check: 4467 from: 1 to: 666  
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 AASTSSASSSAAATTSAAAETLTEMKSETAGPYPGDGSNGPDVLEVSGVERQDITKSID  
 SDTVAEGVPLTLTMTILDMNNNNQPMEGAAVYVWHCDAPGRYSMYDSELEDETYLRGVQI  
 TDKYQVTFDTIFPGCYAGRWWHIHFEVFPDRDSITDSTNNI

>RXN03077 TRANSLATE of: rxn03077.seq check: 553 from: 1 to: 1185  
 VMEIGVQVASWMDRHHDEVIKWRRLHLSHPESHMEYRTTEYLASVLKDHGMEPHLFPGT  
 GLMVDIGPEGDSRLAFRADIDALPILLESTGLEFSSTATGVAHACGHVHTVIALALACAL  
 NTIELPIGIRVIFQPAEEVMTGGATDVIAHGGLDGVDAIYAIHVEPKLVGRVGVVAGAI  
 TSASDVIEIRVKGEGGHSARPHLSADVYVYALSKLVVDLPGLLSRRVDPRTGTVLVFGTIN  
 AGYAPNAIPDSGIVSGTLRTADISTWRDMRPLISELVEQVLAPTGVTHELIYNPGVPPVL  
 NDDVATALLASAARDMDTQSVVQAPQSSGGEDFSWYLEHVPGSMARLGCWPGHGPKQDLH  
 QSDLVVDERAIGVGVRFLGSLVQQYSSRSEAFINS

>RXN03088 TRANSLATE of: rxn03088.seq check: 1646 from: 1 to: 387  
 MGQTRIISGDARGRKIEVPPAGTRPTSDRAREGLFSSLQVRFGFEGQRVLDIFAGSGALG  
 LEAASRGADDEVVLVESNPKAVEVIRRNVDVVKHPRVTVAEMKASTYLASAPDKFFTMVLA  
 DPPYELATT

>RXN03091 TRANSLATE of: rxn03091.seq check: 9170 from: 1 to: 546  
 MIAKDSYTIKLTLDPDVQDAAHNAVSSHVDPTTPGVAEVVNVIEPGENSRDILAITSSRN  
 YGLDLDAGETMLPQATSRVNGAGSIFKIFTAIIQAGAGLDTMLDVPSRYEVKGMGSG  
 GAANCPANTYCVENAGSYAPRMTLQDALAQSPNTAFVEMIEQVGVDTRCGSFSKAGPAKL  
 HR

>RXN03092 TRANSLATE of: rxn03092.seq check: 7622 from: 1 to: 885  
 VSTNSLTCLVASTVAAGVLGALALVPFASLSGVAVARTNDTMQTNLSDLTDGRGPGVTT  
 ITDSTDQPIAYIYAQRREFVGGDQISTSMKDAIVSIEDRRFYEHDGVLDLQGFGRAILTNL  
 AAGGVEQGASTINQQYVKNFLLVEADDEAEQAAVETSIPRKLREMKMASDLEKTLISKD  
 EILTRYLNIVPFGNGAYGVEAAARTYFGTSAAELTIPQSAMLGIVQSSSYLNPTYNHDA  
 VFERRNTVLGAMADAGAIISPDEASAFQOEPLGVLETPQGLSNGCIGAGDRWFFLQ

>RXN03094 TRANSLATE of: rxn03094.seq check: 3583 from: 1 to: 1752





EAARIAPISQILIEDAPYMTPEPFRGSRNEPSLIGHTALCIAEVRGMAVEDVAAALNENFDRVYGVTN  
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>RXS00004 TRANSLATE of: RXS00004.seq check: 8907 from: 1 to: 471  
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VAGAHRIAVRTLHRLFEGEAYGVAELIRHLRLEAVYEDLRDPRQLNLTLAIGMRHGISSQAHLTRLFR  
AKYGVPPAEFRRGYINSAA

>RXS00156 TRANSLATE of: RXS00156.seq check: 311 from: 1 to: 1110  
MNERTSDAFDALLVLSFGGPEGHEEVRPFLENVTHGRGIPPERLDEVAVHYHHFGGISPINALNREIIA  
NVEKELASRDHKLPHYFGNRNWKPFDEAAEQMADDGVKNALVLATSAGGGYSGCRQYQEDIQGMIKHL  
ESQGQSITFTKLRFYDHPFVSTMAQLVQDSYAKLPDELDEARLVFTAHSIPLTADNAAGTPEDGSL  
YSTQVKEASALIAEAVGVSDFDVWVQSRSGSPHTFWLEPDIVDHAVELNEKGQKALVVCVPGFISDHME  
VIWDLDELMEEAEKRNMMVVERVATVGPTDEFAALVVDLIEEAELKRVIERLGKLPARGSSVNGAPCGD  
GCCGTAKHKTARVNPNSAAPAAN

>RXS00166 TRANSLATE of: RXS00166.seq check: 9467 from: 1 to: 660  
VELARGFGRVLDVGAGTGKLTSELTADQVLALDPSMDMLRVFRSALPAVPCWQATAEHTGIRDNAVDLI  
TCAQTWHWVDVTAASAEFDRVIAPEGAVLLVWNNLDTSIAWVHRLSRIMHAGDVLKPGFTPETAAPWII  
DREIRTTWNQHLTPETIIQLAHTRSYWLNASEKIKERVDQNLQWLYEHLGFSPDNPVELPYRCDAFLL  
SRSGTLAGRSSNL

>RXS00197 TRANSLATE of: RXS00197.seq check: 7429 from: 1 to: 1212  
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DIAGMTAQDELDPEDLPRAMYLKPWWQRIIVLSGGVIMNLIVGFLVLYGVAVSSGIPNPDVDTTATVDT  
VQCVPETQISATELSSCVSGSPAGDAGIEHGDKILAVNGQEMASFTAIRDAILELPGETATLTIEREGT  
LFDVDLQVASVTRLASDGSEITVGAVGMSSLPPTDVYKKYPIEGVGATARFTGDMISATWDGLKAFFPA  
KIPGVVASIFGAERDVESPMSSVVGAVRIGGEFVERSMWDMFMMMLASLNFFLALFNLVPLPLPDGGHIA  
VVIYEKIRDDFFRKLGRKPAGGPADYTKLMPVTVAVAALLMTVGGGLVIVADVNPPIRLFG

>RXS00288 TRANSLATE of: RXS00288.seq check: 2098 from: 1 to: 1011  
MSAQMDTPDPTMSAVAMLDIPSQDPDFLIDVEVDPRTPGPHDLLVHIEAVSINPVDTKVRMRAGKQKH  
PKILGFDAAGEVVAVGSQVTLFNVGDKVYAGSNQRPGSNAEYQVVDERLVGHAPQSLGAHDAAALPLV  
ALTAWESLFDRLGVTQSTTGTLVLGGSGGVPSALIQALARALTGLKVVATASRPESQEWVTKLGAHEVI  
DHSKDLSEQISDVDFVSSWTTGREVELATLMKPQSHLVLIIDDPVDPNLGAFKQKAIALHWEFMFTRAM  
FNTPDMEQGQKILNKIADMVDRGQFESVTATVLDGLNAANIMEGHRLVEQGKTSKGIIVRV

>RXS00624 TRANSLATE of: RXS00624.seq check: 6054 from: 1 to: 687  
MSGRLLSVSSIFDQTRSAADRLISDLRADGIEVSLLVAPRIDGDWRLAKDKGTLAWMEQQRERGHGLI  
LNGFDQAVQGRRSEFANLERHEARLRLTGAIQMQKIGFEFQIFAPPRWRMSEGTFVLPEFDFNVAAS  
TRGLHNLDTGEFLACRNLVSGEGFGAAKWRKNVIKAVTRGAEKGNTVRLSASARNLTNPKVAADFREA  
ALAALDLGAQVQTYSQAAQLA

>RXS00949 TRANSLATE of: RXS00949.seq check: 7131 from: 1 to: 648  
MKVFIIGAAGGIGNRLSSLLHARGDAVSGMHRNLEQASKITDTGATAVLGDLIHNSTEELAELEFRGHDA  
IVFSAGAHGTGQENTTLIDGAGLRKAADAASAANVSRFILVSAPFESSRGENTTENFEHYMKVKSADV  
YLSHTDLDWVIVRPGVLQDEAGDGLVTAGLAINYGNVARDNVAAFIDEALHQPQLSKIIVELTDGSTPV  
AEAYERLIK

>RXS01000 TRANSLATE of: RXS01000.seq check: 4854 from: 1 to: 846  
MSTLTSHRTVPAPSSPPARPKNLARNIVAIVAALIVLIATGTLKIEWNELPQMPAQVWHYLELMFSDPD  
WSKFGRVQEMWRSIAMAWLGAILCVVSVPLGMLAARGVGPYWLRTVLRVFAVIRAFPEVVIAIILL  
TVTGLTPFTGALALGISGIGQAKWTYEAIESTPTGPSEAVRAAGGTTPEVLRWALWPQVAPSASFAL  
YRFEINIRTSVAVLGIVGAGGIGSMLANYTNYRQWDTVGMLLIVVVVATMIVDLISGTIRRRIMKGASDR  
VVAPSN

>RXS01002 TRANSLATE of: RXS01002.seq check: 1757 from: 1 to: 804  
MNSDASATTNSWAINFDHVSVTYPNGTKALDDVSLTINPGEMVAIVGLSGSGKSTLIRTINGLVRATEG  
TVTVGPHQINTLKGKALRDARGQIGMIFQGFNLSSSVFQNVLVGRFAHTAWWRNLLGFTEHDKQIA  
FHALESVGILHKVWTRAGALSGGQKQRAIARALSQDPSVMLADEPVASLDPPTAHSVMRDLENINNVE  
GLTVLVNLHLIDLARQYTTRLVGLRAGKLVYDGPSEATDKDFEAIYGRPIQAKDLLGDRA

>RXS01003 TRANSLATE of: RXS01003.seq check: 6582 from: 1 to: 804  
MTTPSSTLIPQKPRAGVKTYLIIGAIIVFTVATATPALGGIELDFASIAANWRNGANKLLQMLQPNFAF  
LPRTWLPMLLETQLMALVGAVLSAAVSVPLTLWAAQATNTSAIGRGIVRTIINVVRVSPDLVYATILVAM  
VGVGALPGILTFLFNLGIVVKLVSEAIDSTEPYMEAGRAAGGSQFQINRVLSALPEVMPPLFANQWLYT  
LELNVRISAILGIVGAGGIGRLLDERRAFYAYADVSVIILEILIVVIVIEVISNALRKRLV

>RXS01114 TRANSLATE of: RXS01114.seq check: 9460 from: 1 to: 1224  
MNPQDIVICSPRLTPVGAYGGSFTGVPVEELATTVINAVEATGITGDDVDDLILGQASPNGAAPALGR  
VVALDSKLGQNVPGMLDRRCGSLQAIVTAAHVASGAADLIAGGAESMSRVEYTVSGDIRWGVKGG  
DMQLRDLRLAEARETAGGRNHPIPGGMIETAENLRREYGISREEQDKISAASQQRWGKAADAGLFDDEIV  
PVTVPKKRGQEPTIVSRDEHGRPGTTVEKLAALRPIMGRQDAEATVTAGNASGQNDGAAAVITTRAK  
AEEKGLRPVMRLAGWSVAAPPETMGIGPVPATKKVLDRLGLTLEDIGAIELNEAFQAQALSVLKAWN  
SWEDERVNPLGSGISMGHPVGATGARMAVTLAHRMQRENTQYGLATMCIGGGQGLAAVFEKEN

>RXS01205 TRANSLATE of: RXS01205.seq check: 7949 from: 1 to: 531  
VSAYPPAIIAAALVGICAGVLPNFEPSRIFMGDSGSMIGLILLAAASTSASGKINMSLYGAADFIALI  
SPIIVVLAAVAIPLLDLVMAVVRVVRGASPFSPDKMHLHRLLSIGHTHRRVVLVLYTWASAVAFGAV  
SFSVVPPLFATGSSICGILIAVAVTAVPVMKSRRRAAKLD

>RXS01223 TRANSLATE of: RXS01223.seq check: 5210 from: 1 to: 612  
MTSVSFLSKIQALFAPKPELPAKWLVLVGLGNPGAKYESTRHNVGVMCQDMLIDAHQQQPLTPATGYKA  
LTTQLAPGVLAVRSTTFMNHSGQGVAPIAAALGIPAERIIVIHDELDLPAGKVRLKKGNGNENHGLKS  
LTEELGTRDYLVRIGISRPPAGMAVPDYVLEPVDHDPGIELAAEAVDLLLLAQGLSAAQNAIHSR

>RXS01269 TRANSLATE of: RXS01269.seq check: 7324 from: 1 to: 441  
VVFEMIKFRMTLEPDEKHVTDEQRLTKVGKLLRETSDELPTLWNVFKGMSLVGPRPLLVSYLEHYSS  
EQARRHEVRPGITGLAQVNGRNQTTWDERLKL DVEYVDRCSLKLDFKILIATVKTVL SKKGISNEGHVT  
MPSFIEERK

>RXS01421 TRANSLATE of: RXS01421.seq check: 1863 from: 1 to: 387  
MTSKSISGKRPNLPSLTGARWLAALAVYFLHALVFLSVYPFQQSELFATIHKFVPMQLGSAGVTFFFIL  
SGFLIYWSNSQLKGMKNVLYYCKRRITKIYPMHLIALPMFIEASAKFTTTGITWVLILRE

>RXS01491 TRANSLATE of: RXS01491.seq check: 8146 from: 1 to: 651  
MLDESLFPNSAKFSFIKTGDAVNLDHFHQLHPLEKALVAHSVDIRKAEFGDARWCAHQALQALGRDSGD  
PILRGERGMPLWPSSVSGSLTHTDGFRAAVVAPRLLVRSMLDAEPAEPLPKDVLGSIARVGEIPQLKR  
LEEQGVHCADRLFLCAKEATYKAWFPLTHRWLGFQEAEIDLRDDGTFVSYLLVRPTVPFISGKWVLRD  
GYVIAATAVT

>RXS01572 TRANSLATE of: RXS01572.seq check: 5324 from: 1 to: 492  
MGVQIAAAKGA EVT VLSRSLRKAELAKELGAARTLATSDEDDFFTEHAGEFDLNTISASIPVDKYL  
LKP HGVMAVVGLPPEKQPLSFGALIGGGKVL TGSNIGGIPETQEMLDFCAKHGLGAM IETVGVNDVDA  
YDRVVAGDVQFRVVIDTASFAEVEAV

>RXS01642 TRANSLATE of: RXS01642.seq check: 4751 from: 1 to: 1242  
MRRLIAVSLAALFMLASTPATRAQEVEALACPEVAIADPSSAVLDEHLSQSLSQAHLATGAGVMVAVI  
DTGVSLHPRPLPHLIPGGDFVGAHQSPDPVPGELIDCDGHGTIVAGIIASQGNPGTGWPYDGSSDPYIGVA  
PDSGIISIKQTSSYVRTREDSNVGTLSLTAESIHRALDSGAHVINISVVSCLPQSPDEAASFQPLTDAL  
NRAELQGVIVVAAAGNLGQDCPVGSTVYPASDVTLSVSARFDSHTLAEYSMPGNQQLSAPSHIQAGL  
SPRGDGFASHMITTAGESPFEGETSFAAPVVSATAALLRQHFPFATPYEIRARIFNSIDPARGAIDPYLA  
LTQEIYPTTPLVHEIALSVPTPPDDSPRERGILVTAIIVGLLAVLAVLMGLRRIHHHSFAQKASSSVIT

>RXS01902 TRANSLATE of: RXS01902.seq check: 3503 from: 1 to: 1059  
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YNAMYPRPNQVDENYFFEYNNALFLSLDSNDYLDIDDDIAFLRDTVAAHGDDKDWIVLTYHHSTFSQAY  
HMDDARIKYQRERLTPVISELNVDLVLGGHDHIYTRSHLMNGFTPVDAGREAVVGETLNP KAGEVVYLA  
TNSSSGSKFYDFYDFQLGQRYDTGLDFQETVDQKKIRTYTAVWNQDQVQDYTNVELTPEGLTVTTKDAV  
SGELVDQFTLSKQDRDEESEVPVEDDKDGD NATGSSNLGLAAILAPVLAI FGFVGGFLVVGGS LAEFFA  
NLGVKMPF



